

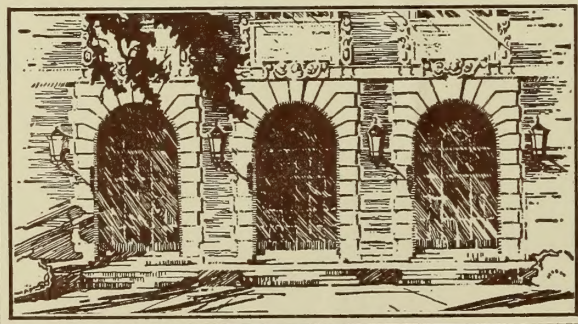
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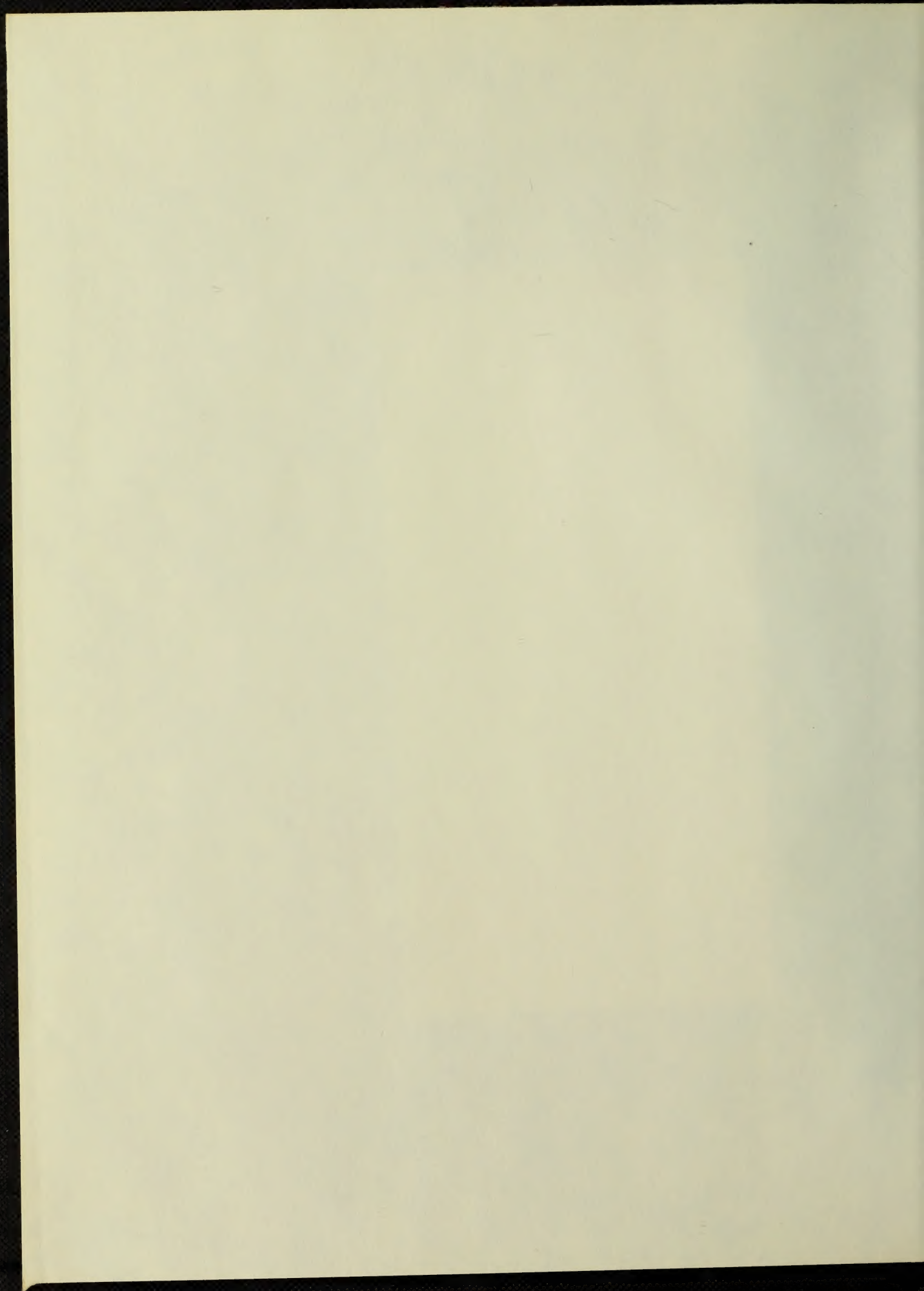
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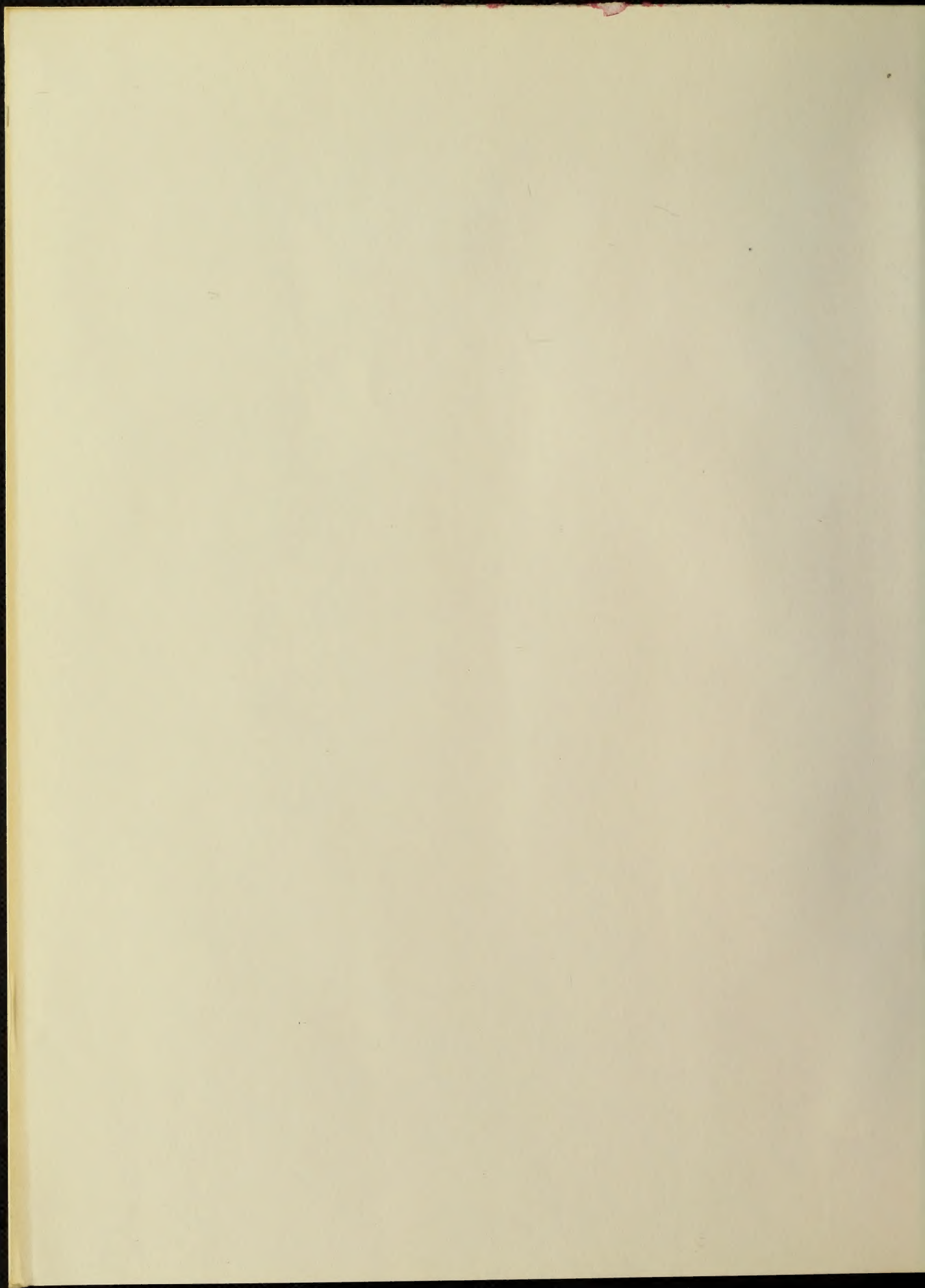
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ENDOCRINOLOGY INDEX

NATIONAL INSTITUTE OF ARTHRITIS AND METABOLIC DISEASES

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EXPLANATION OF FORMAT

The period covered by this issue of the bibliography corresponds to the same months of *Index Medicus*. The journal coverage is limited to journals covered by *Index Medicus*, but the *Endocrinology Index* contains additional subject headings that are not included in *Index Medicus*. The *Endocrinology Index* is arranged in seven sections: 1) Table of Contents; 2) Subject Section; 3) Review Section; 4) Method Section; 5) Author Section; 6) Subject Index; and 7) Author Index.

Subject Section

The Subject Section is for the reader interested in recent literature related to certain broad topics and is divided into eight categories (pituitary, thyroid, etc.). The endocrine pancreas has not been included since it is the subject of another recurring bibliography, *Diabetes Literature Index*. Each category has a preconceived hierarchical organization of subject headings. A particular citation may appear more than once if it deals with multiple topics. Each citation to an article contains the full title, first author, and journal reference. If the article is written in a foreign language, the language is indicated. If the citation is to a review article, the number of references is given.

Author Section

The Author Section provides the reader with a list of keywords or index terms assigned to each citation. Each article appears only once. The citations are arranged alphabetically according to first author and are

numbered consecutively. These numbers are then used in the Author and Subject Indexes to enable the reader to identify references with ease. The complete citation (including index terms) are found but only the first three authors are listed. Foreign titles appear in the original language; these titles have been translated into English in the Subject Section. Following each citation are index terms which have been assigned to describe the contents of the article. Index terms appear in capital letters; some of these are accompanied by subheadings which appear in lower case letters. Asterisks (*) identify the index terms under which articles appear in *Index Medicus*.

Subject Index

All of the index terms assigned to the citations appearing in the bibliography are listed, followed by citation numbers which correspond to the numbers in the Author Section. The Subject Index is included for the convenience of the reader who wishes to select articles falling in categories of his own conception. For example, one who is interested in protein binding of a particular hormone could quickly find whether there were any articles dealing with this subject by determining if there were any citation numbers common to the two headings "protein binding" and the name of the specific hormone.

Author Index

The names of all authors are listed, followed by citation numbers which correspond to the numbers in the Author Section.

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ENDOCRINOLOGY INDEX

National Institute of Arthritis
and Metabolic Diseases

Edited by
N. Victoria Ragin

Developed with the support of Contract PH43-66-480 to Vanderbilt University
under the direction of Grant W. Liddle, M.D.

Advisory Committee:

Gerald D. Aurbach, M.D.
Robert W. Bates, Ph.D.
Nicholas P. Christy, M.D.
Melvin M. Grumbach, M.D.

Joseph L. Izzo, M.D.
Seymour Lieberman, Ph.D.
Jacob Robbins, M.D.
Kenneth J. Ryan, M.D.

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PREFACE

The *Endocrinology Index* is a bimonthly publication of the National Institute of Arthritis and Metabolic Diseases. This selected bibliography which is produced from the National Library of Medicine's Medical Literature Analysis and Retrieval System (MEDLARS), has been initiated to supply those scientists working in the field of endocrinology with a much needed current awareness tool and is intended to help facilitate greater integration of research and clinical efforts in this field.

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PITUITARY GLAND

PITUITARY

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- Hypothalamic neurosecretion and metamorphosis in *Xenopus laevis*. IV. The effect of extirpation of the presumed TRF cells and of a subsequent PTU treatment. Goos HJ. *Z Zellforsch* 97:449-58, 1969

PITUITARY GLAND

- Thyroidal radioliodine uptake and thyrotropic potency of the pituitary in a freshwater catfish, *Mystus vittatus* (Bloch), in response to L-thyroxin, antithyroid drugs, and heavy doses of 131-I. Singh TP. *Z Zellforsch* 94:172-80, 1969
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- [Cellular proliferation in the anterior hypophysis during liver and kidney regeneration] Stöcker E, et al. *Verh Deutsch Ges Path* 53:436-40, 1969 (Ger)

RADIATION EFFECTS

- Thyroidal radioliodine uptake and thyrotropic potency of the pituitary in a freshwater catfish, *Mystus vittatus* (Bloch), in response to L-thyroxin, antithyroid drugs, and heavy doses of 131-I. Singh TP. *Z Zellforsch* 94:172-80, 1969

SECRETION

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- [Histophysiology of neurosecretory elements of the neurohypophysis and adrenocorticotrophic function in audiogenic "reflex" epilepsy] Popovichenko NV, et al. *Vrach Delo* 1:93-7, Jan 69 (Rus)

SURGERY

- [Which is the st approach to the pituitary gland?] Gulot G. *Presse Med* 78:209-10, 28 Jan 70 (Fre)

PITUITARY

TRANSPLANTATION

- Porcine thyrotropin releasing hormone is (pyro)glu-his-pro(NH₂). Bowers CY, et al. *Endocrinology* 86:1143-53, May 70
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- Inhibition of the in vitro synthesis of pituitary prolactin and growth hormone by mouse pituitary isografts. MacLeod RM. *Proc Soc Exp Biol Med* 133:339-41, Jan 70

PITUITARY GLAND FUNCTION

TESTS

- Urinary excretion of different corticosteroid-metabolites in oral contraception and pregnancy. Nielsen MD, et al. *Acta Endocr (Kobenhavn)* 60:473-85, Mar 69
- Note on the pituitary and an anorexigenic material isolated from urine. Uehara PS, et al. *Canad J Physiol Pharmacol* 48:185-8, Mar 70
- The diagnostic use of gonadotropins. McDonough PG, et al. *Fertil Steril* 21:126-33, Feb 70
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- Effect of cold exposure on serum thyrotropin. Hershman JM, et al. *J Clin Endocr* 30:430-4, Apr 70
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PITUITARY GLAND IRRADIATION

- Insulin and growth hormone responses to glucose loading in treated acromegalics. Akerblom HK, et al. *Diabetologia* 5:183-7, Jun 69
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- [Ultrasonic hypophysectomy] Arslan M. *Arch Klin Exp Ohr Nas Kehikoptheilk* 194:284-93, 22 Dec 69 (Ger)

PITUITARY GLAND, POSTERIOR

ANALYSIS

- Identification and terminal distribution of the tubero-hypophyseal monoamine fibre systems in the rat by means of stereotaxic and microspectrofluorimetric techniques. Björklund A, et al. *Brain Res* 17:1-23, 6 Jan 70
- Lipid composition of beef and human pituitary glands. Singh H, et al. *Lipids* 5:121-7, Jan 70
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ENZYMOLGY

- [Acetylcholinesterase in the distal part of Zonotrichia leucophrys gambelii (Aves)] Haase E, et al. *Z Zellforsch* 93:356-68, 1969 (Ger)

METABOLISM

- [Histoautoradiographic study of D-Glucose-6-3H incorporation in neurosecretory hypothalamus and pituitary neural lobe in normal and dehydrated albino mice] Roux M. *C R Acad Sci [D] (Paris)* 207:717-20, 2 Feb 70 (Fre)

PATHOLOGY

- Identification and terminal distribution of the tubero-hypophyseal monoamine fibre systems in the rat by means of stereotaxic and

microspectrofluorimetric techniques. Björklund A, et al. *Brain Res* 17:1-23, 6 Jan 70
 [Organization of a contact area between adeno and neurohypophysis of birds during experimental metabolic disorders] Sarrat R, et al. *Verh Anat Ges* 63:479-81, 1969 (Ger)

PHYSIOLOGY

Influence of hypophyseal intermediate lobe tissue and colloid on the reticuloendothelial cells of the liver. Body WH. *Experientia* 26:72-4, 15 Jan 70
 [Acetylcholinesterase in the distal part of *Zonotrichia leucophrys gambelii* (Aves)] Haase E, et al. *Z Zellforsch* 93:356-68, 1969 (Ger)

PHYSIOPATHOLOGY

Antidiuretic principle in tuberculous lung tissue of a patient with pulmonary tuberculosis and hyponatremia. Vorherr H, et al. *Ann Intern Med* 72:383-7, Mar 70

PITUITARY

II. Disorders of the Pituitary Gland

ACROMEGALY

[Acromegaly] Matsuzaki S.
Clin Endocr (Tokyo) 18:83-9, Jan 70 (Jap)

BLOOD

Partial purification of sulphation factor and thymidine factor from plasma. Wyk JJ van, et al.
Biochim Biophys Acta 192:560-2, 30 Dec 69
Antibody-coated tube method for radioimmunoassay of human growth hormone. Catt KJ, et al.
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Diabetologia 5:183-7, Jun 69
Disappearance rate of endogenous and exogenous human growth hormone in man. Refetoff S, et al.
J Clin Endocr 30:386-92, Mar 70
[Permanent and non-suppressable somatotrophic hypersecretion in acromegaly] Strauch G, et al.
Presse Med 78:167-70, 24 Jan 70 (Fre)

COMPLICATIONS

Insulin and growth hormone responses to glucose loading in treated acromegalics. Akerblom HK, et al.
Diabetologia 5:183-7, Jun 69
[Gardner's syndrome with acromegaly and mixed tumor of the parotid. A case] Gadrat J, et al.
Arch Franc Mal Appar Dig 59:163-70, Mar 70 (Fre)
[Acromegaly is always evolutive. Is it a severe disease?] Bricaire H, et al.
Presse Med 78:159-60, 24 Jan 70 (Fre)
[Primary and secondary hyperinsulinism] Crepaldi G, et al.
Minerva Med 61:292-308, 27 Jan 70 (Ita)

DIAGNOSIS

[Acromegaly] Matsuzaki S.
Clin Endocr (Tokyo) 18:83-9, Jan 70 (Jap)

ETIOLOGY

[Acromegaly] Matsuzaki S.
Clin Endocr (Tokyo) 18:83-9, Jan 70 (Jap)

METABOLISM

The relationship of the serum alkaline phosphatase to urinary hydroxyproline excretion in liver and bone diseases. Cerda JJ, et al.
Clin Chim Acta 27:437-43, Mar 70
Cortisol stimulation of growth hormone production by human pituitary tissue in culture. Bridson WE, et al.
J Clin Endocr 30:538-40, Apr 70
Disappearance rate of endogenous and exogenous human growth hormone in man. Refetoff S, et al.
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Duodecim 85:1108-19, 1969 (Fin)
[Acromegaly is always evolutive. Is it a severe disease?] Bricaire H, et al.
Presse Med 78:159-60, 24 Jan 70 (Fre)

MORTALITY

[Acromegaly is always evolutive. Is it a severe disease?] Bricaire H, et al.
Presse Med 78:159-60, 24 Jan 70 (Fre)

PHYSIOPATHOLOGY

Insulin secretion in acromegaly. Fineberg SE, et al.
J Clin Endocr 30:288-92, Mar 70
[Acromegaly is always evolutive. Is it a severe disease?] Bricaire H, et al.
Presse Med 78:159-60, 24 Jan 70 (Fre)
[Examination of the thyroid gland function with the aid

of labeled thyroxin in patients with acromegaly]
Kasatkin IuN, et al.
Probl Endokr (Moskva) 15:22-5, Jul-Aug 69 (Rus)

SURGERY

[Ultrasonic hypophysectomy] Arslan M.
Arch Klin Exp Ohr Nas Kehlkopfheilk 194:284-93, 22 Dec 69 (Ger)

THERAPY

Insulin and growth hormone responses to glucose loading in treated acromegalics. Akerblom HK, et al.
Diabetologia 5:183-7, Jun 69
[Acromegaly] Matsuzaki S.
Clin Endocr (Tokyo) 18:83-9, Jan 70 (Jap)

URINE

Nondialyzable urinary hydroxyproline as an index of bone collagen formation. Haddad JG Jr, et al.
J Clin Endocr 30:282-7, Mar 70

ADENOMA, BASOPHILIC

COMPLICATIONS

[Clinico-anatomic parallels in Itsenko-Cushing disease]
Zairat'iani VB, et al.
Zh Nevropat Psikhiat Korsakov 69:1654-9, 1969 (Rus)

ADENOMA, CHROMOPHOBE

COMPLICATIONS

Pituitary apoplexy. Lopez IA.
J Oslo City Hosp 20:17-27, Feb 70 (13 ref.)

DIAGNOSIS

Pituitary apoplexy. Lopez IA.
J Oslo City Hosp 20:17-27, Feb 70 (13 ref.)

ETIOLOGY

Influence of protein and caloric intake upon spontaneous tumor incidence of the anterior pituitary gland of the rat. Ross MH, et al.
J Nutr 100:177-89, Feb 70

PATHOLOGY

Influence of protein and caloric intake upon spontaneous tumor incidence of the anterior pituitary gland of the rat. Ross MH, et al.
J Nutr 100:177-89, Feb 70

SURGERY

Pituitary apoplexy. Lopez IA.
J Oslo City Hosp 20:17-27, Feb 70 (13 ref.)

ADENOMA, EOSINOPHILIC

COMPLICATIONS

[Association of eosinophilic pituitary adenoma with malignant neoplasms of nonneural origin] Pinto F.
Zbl Neurochir 30:303-8, 1969 (Ger)

CRANIOPHARYNGIOMA

COMPLICATIONS

Antidiuretic effect and complications of chlorpropamide therapy in diabetes insipidus. Webster B, et al. J Clin Endocr 30:215-27, Feb 70
[Bone-joint system in cerebro-hypophyseal nanism

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Labelling of antigens by various isotopes. Eshkol A. *Acta Endocr (Kobenhavn) [Suppl]* 142:145-62, 1969

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- Subcellular distribution and arterio-venous differences of synthetic
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THYROID

III. Thyroid Hormones, Precursors, Metabolites and Synthetic Analogs

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- Proteolysis in thyroid slices: Effects of TSH, dibutyryl cyclic 3', 5'-AMP and prostaglandin E. Ahn CS, et al. *Endocrinology* 86:870-3, Apr 70
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- Effect of thyrotrophin on the plasma iodotyrosine level in dogs. Földes J, et al. *Acta Endocr (Kobenhavn)* 60:401-11, Mar 69

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- The influence of thyroxine and thiouracil on rats fed excess tyrosine. Boctor AM, et al.
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THYROID ANTAGONISTS

- Goitrogenic effect of walnut and its action on thyroxine excretion. Linazasoro JM, et al.
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THYROID ANTAGONISTS

THYROID

ADVERSE EFFECTS

Post-treatment hypothyroidism. Simplified detection and follow-up system using the achilles reflex time. Nordyke RA, et al. *Surg Clin N Amer* 50:319-27, Apr 70
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THYROID

V. Related Topics

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II. Disorders of the Adrenal Glands

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BLOOD

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DRUG THERAPY

Operative collapse after corticosteroid therapy--a survey. Roberts JC. *Surg Clin N Amer* 50:363-79, Apr 70

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DDD

TOXICITY

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OVARY

ABNORMALITIES

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[Precocious puberty in a 14-month-old boy] Chmielowa M, et al. *Endokr Pol* 20:523-7, Nov-Dec 69 (Pol)

SERTOLI CELL TUMOR

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[The XXY-syndrome. Two new observations in young children and a literary review] Zollinger H. *Helv Paediat Acta* 24:589-99, Dec 69 (Ger)
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STEIN-LEVENTHAL SYNDROME

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DIAGNOSIS

Epidermoid cysts of the testis: a clinical and pathologic analysis of 69 cases from the testicular tumor registry. Price EB Jr. J Urol 102:708-13, Dec 69

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- Testicular histology in tropical vaginal hydrocele. Bhatnagar BN, et al. *Int Surg* 53:167-70, Mar 70
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- [Classification of intersexuality] Boczkowski K. *Pol Tyg Lek* 25:186-8, 2 Feb 70 (24 ref.) (Pol)

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- Syndromes of testicular feminization. *Clin Pediat (Phila)* 9:165-78, Mar 70

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- Testicular feminizing syndrome and "pure" gonadal dysgenesis. Report of cases and in vitro studies with testes homogenate. Pujol-Amat P, et al. *Amer J Obstet Gynec* 106:736-49, Mar 70
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- Testicular feminizing syndrome and "pure" gonadal dysgenesis. Report of cases and in vitro studies with testes homogenate. Pujol-Amat P, et al. *Amer J Obstet Gynec* 106:736-49, Mar 70

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- [Colpopoiesis using the sigmoid in testicular

- feminization] Györy G, et al. *Zbl Gynaek* 91:1069-78, 16 Aug 69 (Ger)

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- Syndromes of testicular feminization. *Clin Pediat (Phila)* 9:165-78, Mar 70

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- [Colpopoiesis using the sigmoid in testicular feminization] Györy G, et al. *Zbl Gynaek* 91:1069-78, 16 Aug 69 (Ger)

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- Testicular feminizing syndrome and "pure" gonadal dysgenesis. Report of cases and in vitro studies with testes homogenate. Pujol-Amat P, et al. *Amer J Obstet Gynec* 106:736-49, Mar 70

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- [Retroperitoneal seminoma] Jayet A, et al. *Schweiz Med Wschr* 100:265-72, 7 Feb 70 (Fre)
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- [A case of sarcoma of the testicular membrane] Davidovskii ML. *Klin Khir (Kiev)* 1:76, Jan 69 (Rus)
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- [Classification and treatment of testicular neoplasms] Gläser A, et al. *Zbl Chir* 94:1273-85, 27 Sep 69 (Ger)

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- [Oncological aspects of cryptorchism therapy] Marinbakh EB. *Urol Nefrol (Moskva)* 34:50-4, Nov-Dec 69 (Rus)
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- Epidermoid cysts of the testis: a clinical and pathologic analysis of 69 cases from the testicular tumor registry. Price EB Jr. *J Urol* 102:708-13, Dec 69
- [Clinical aspects and therapy of testicular tumors] Seifert J, et al. *Munchen Med Wschr* 111:2448-52, 21 Nov 69 (Ger)
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- [Clinical and morphological findings of adenomatoid epididymal tumors] Huth F, et al. *Zbl Chir* 94:684-90, 17 May 69 (Ger)
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- Childhood testicular tumor due to leukemia.

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 [Clinical aspects and therapy of testicular tumors]
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- [Coexistence of testicular neoplasms with
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- Leydig cell function in men with
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- Yolk sac tumors of the testis. Pierce GB, et al.
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- [Practical value of endolymphatic radiotherapy.
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 [Clinical aspects and therapy of testicular tumors]
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SURGERY

- [Clinical aspects and therapy of testicular tumors]
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VETERINARY

- A study of the cytology and karyotype of the canine
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TESTIS

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- Bilateral absence of testes. Borrow M, et al.
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 [Masculine infertility and its causes] Stegner HE.
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- Immunological aspermatogenesis in man. I. Blastoid
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 el-Alfi OS, et al. J Reprod Fertil 21:23-8, Feb 70
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 to corticosteroids in cases of non-obstructive
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 test. Bassili F, et al. J Reprod Fertil 21:29-35, Feb 70
 Mechanical traumatic injury to the genitalia in
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 [Dislocation of the testis] Datuashvili DL, et al.
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THECA CELL TUMOR

- [Thecoblastoma; clinical case] Milcu SM, et al.
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CHEMICALLY INDUCED

- Methylcholanthrene-induced hormonally active
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- [Response of the ovarian tumors induced in
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 J Tokyo Med Coll 27:499-504, Jul 69 (Jap)

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- Methylcholanthrene-induced hormonally active
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PHYSIOPATHOLOGY

- Methylcholanthrene-induced hormonally active
 ovarian tumors in rabbits after two years of
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TURNER'S SYNDROME

- Testicular feminizing syndrome and "pure" gonadal
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 Critical evaluation of 69 cases] Raue I, et al.
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 [Traits of Turner's syndrome in boys and men]
 Szczepski O, et al.
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GONADS

TURNER'S SYNDROME

BLOOD

- Pure gonadal dysgenesis with progressive hirsutism. Judd HL, et al. *New Eng J Med* 282:881-5, 16 Apr 70
- Hormonal changes in puberty. II. Correlation of serum luteinizing hormone and follicle stimulating hormone with stages of puberty and bone age in normal girls. Sizonenko PC, et al. *Pediat Res* 4:36-45, Jan 70

CLASSIFICATION

- [Classification of intersexuality] Boczkowski K. *Pol Tyg Lek* 25:186-8, 2 Feb 70 (24 ref.) (Pol)

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- Hearing impairment in Turner's syndrome. Anderson H, et al. *Acta Otolaryng (Stockholm) Suppl* 247:1-26, 1969
- Gonadal dysgenesis with lymphocytic thyroiditis and deletion of the long arm of the X chromosome. Mellin K, et al. *Acta Paediat Scand* 58:625-31, Nov 69
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III. Gonadal Hormones, Precursors, Metabolites and Synthetic Analogs

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CHLORMADINONE

Pregnancy and chlormadinone acetate. Daniel GR. *Brit Med J* 1:174-5, 17 Jan 70
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GONADS HYDROXYPROGESTERONE

ETHYLESTRENOL

ADMINISTRATION & DOSAGE

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PHARMACODYNAMICS

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ISOLATION & PURIFICATION

Studies on the metabolism of steroid hormones and their precursors by the human placenta at various stages of gestation. 3. In vitro metabolism of 3 beta, 17 alpha-dihydroxy-pregn-5-ene-20-one. Smith SW, et al. *Steroids* 15:421-32, Mar 70

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ADMINISTRATION & DOSAGE

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PLACENTA

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PLACENTA

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IMMUNOLOGY

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HISTORY

Historical landmarks in trophoblastic aberrations and neoplasms. Silva K de. *Ceylon Med J* 14:178-84, Dec 69

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HYDATIDIFORM MOLE

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HYDATIDIFORM MOLE

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COMPLICATIONS

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HISTORY

- Historical landmarks in trophoblastic aberrations and
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IMMUNOLOGY

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- The prognostic application of HL-A and ABO typing in
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ETIOLOGY

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IMMUNOLOGY

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MORTALITY

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al. Antibiotiki 14:1059-63, Dec 69 (Rus)
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FAMILIAL & GENETIC

- Multisystem blood group study in trophoblastic
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PLACENTAL LACTOGEN

TOXICITY

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PLACENTAL HORMONES

A first conference and workshop on human placental
lactogen. Obstet Gynec Survey 25:207-9, Mar 70

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PARATHYROID AND BONE

1. Physical and Functional Aspects of the Parathyroid Glands

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NEUROENDOCRINOLOGY

I. Physical and Functional Aspects

AMYGDALOID BODY

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NEUROENDOCRINOLOGY

III. Neuroendocrine System Hormones, Precursors, Metabolites, and Synthetic Analogs

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MELATONIN

ANALYSIS

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NEUROENDOCRINE CONTROL MECHANISMS: *

1. The Hypothalamic-Pituitary-Gonadal System

A. General and Review Articles, and Books.

Armstrong DT (Dept. of Obstetrics and Gynecology, Univ. of Western Ontario, London, Ontario, Canada)

Reproduction.

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Investigations on the use of an immunochemical test for luteinizing hormone in clinical medicine.

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Regulation hypothalamique de la secretion de la prolactine chez les oiseaux.

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Stimulation des cellules gonadotropes prehypophysaires a LH-ICSH du cobaye apres administration de dopamine in vivo.

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(Preliminary observations on neural control of prolactin in a urodele amphibian. Short-term in vitro experience)

Osservazioni preliminari sul controllo neurale della prolattina in un anfibio urodelo. Esperienze in vitro a breve termine.

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(Study of hypothalamic monoamines in the male mouse subjected to injections of basdene (benzylthiouracil) associated with the administration of metatyrosine)

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Endocr Jap Suppl 1:69-73, 1969

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Ann Endocr (Paris) 30(6):783-788, 1969 (Fr)

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 French summary.
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 Effect of estrogen, progesterone and their combination on the rat testis.
 Endokrinologie 55(5-6):303-310, 1970
- Singh K, Mathur RS (Dept. of Zoology, Cell Biology Section, Univ. of Rajasthan, Jaipur-4, India)
 The influence of testosterone propionate on the histological and enzymological changes in the active testis of gerbil, Meriones hurrianae Jerdon.
 Endokrinologie 55(5-6):298-302, 1970
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 Estrogenic regulation of uterine pyruvate kinase.
 Amer J Physiol 208(2):321-327, 1970
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 Amer J Physiol 218(2):571-575, 1970
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 Conversion of cholesterol to testosterone and androstenediol in testicular homogenates of immature and mature rats.
 Steroids 15(3):373-387, 1970
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 Effects of estrogen, SU-9055, and cyproterone acetate on the hypersecretory activity in the seminal vesicles of the castrate catfish, Heteropneustes fossilis (Bloch).
 J Exp Zool 172(4):399-408, 1969
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 Territorial marking in the female Mongolian gerbil: short-term reactions to hormones.
 Hormone Behav 1(2):157-160, 1970

Thiessen DD, Yahr P (Dept. of Psychology, Univ. of Texas, Austin, Texas)

Central control of territorial marking in the Mongolian gerbil.
Physiol Behav 5(3):275-278, 1970

Thomas JA, Knych ET Jr., Mawhinney MW, Smith SR (Dept. of Pharmacology, West Virginia Univ. Medical Center, Morgantown, W.Va. 26506)

Action of various 19-norsteroids on the uptake of radioactive testosterone by sex accessory organs of the mouse.

Europ J Pharmacol 9(2):235-238, 1970

Uchida K, Kadowaki M, Miyake T (Shionogi Research Lab., Shionogi and Co., Ltd., Fukushima-ku, Osaka, Japan)

Effect of exogenous progesterone on the preovulatory progesterone secretion in the rat.

Endocr Jap 16(5):485-491, 1969

Wallach EE, Garcia C-R (Family Planning Clinic, Division of Human Reproduction Dept. of Obstetrics and Gynecology, Hospital of the Univ. of Pennsylvania, Philadelphia, Pennsylvania)

Contraception with an intramuscular estrogen-progestogen preparation administered monthly: experience with 4512 cycles of use.

Contraception 1(3):185-207, 1970

Wallach EE, Noriega C (Division of Reproductive Biology, Dept. of Obstetrics and Gynecology, Univ. of Pennsylvania School of Medicine, Philadelphia, Pa.)

Effects of local steroids on follicular development and atresia in the rabbit.

Fertil Steril 21(3):253-267, 1970

F. Internal (Short) Feedback

Corbin A, Daniels EL, Milmore JE (Dept. of Pharmacology, Squibb Inst. for Medical Research, New Brunswick, N.J. 08903)

An "internal" feedback mechanism controlling follicle stimulating hormone releasing factor.

Endocrinology 86(4):735-743, 1970

Kanematsu S, Mikami S-I (Dept. of Veterinary Anatomy, Iwate Univ., Ueda 3, Morioka, Japan)

Release and production of LH, prolactin and TSH in the rabbit and chicken.

Endocr Jap Suppl 1:75-82, 1969

G. External (Long) Feedback

Barraclough CA, Haller EW (Dept. of Physiology, School of Medicine, Univ. of Maryland, Baltimore, Maryland 21201)

Positive and negative feedback effects of estrogen on pituitary LH synthesis and release in normal and androgen-sterilized female rats.

Endocrinology 86(3):542-551, 1970

Chen CL, Meites J (Dept. of Physiology, Michigan State Univ., East Lansing, Michigan 48823)

Effects of estrogen and progesterone on serum and pituitary prolactin levels in ovariectomized rats.

Endocrinology 86(3):503-505, 1970

Eleftheriou BE, Desjardins C, Pattison ML (Jackson Lab., Bar Harbor, Maine 04609)

Effects of ovariectomy and ovarian hormones on RNA base ratios in specific rabbit brain areas.

J Endocr 46(3):331-340, 1970

Koyayashi F, Hara K, Miyake T (Shionogi Research Lab., Shionogi and Co., Ltd., Fukushima-ku, Osaka, Japan)

Further studies on the causal relationship between the secretion of estrogen and the release of luteinizing hormone in the rat.

Endocr Jap 16(5):501-506, 1969

Kobayashi F, Hara K, Miyake T (Shionogi Research Lab., Shionogi and Co., Ltd., Fukushima-ku, Osaka, Japan)

Inhibitory and facilitatory effects of steroids on the release of luteinizing hormone.

Endocr Jap 16(5):493-499, 1969

Lawton IE, Sawyer CH (Dept. of Anatomy, UCLA, Los Angeles, Calif. 90024)

Role of amygdala in regulating LH secretion in the adult female rat.

Amer J Physiol 218(3):622-626, 1970

Hiyake T (Shionogi Research Lab., Fukushima-ku, Osaka, Japan)

Causal relationship between ovarian steroids secretion and pituitary luteinizing hormone release in the rat estrous cycle.

Endocr Jap Suppl 1:83-92, 1969

Moore NW (Dept. of Animal Husbandry, Univ. of Sydney, McCaughey Memorial Inst. Jerilderie, N.S.W., Australia)

Fertilization in ewes treated with progesterone and quine anterior pituitary extract.

J Endocr 46(1):121-122, 1970

Presl J, Rohling S, Horsky J, Herzmann J (Inst. for the Care of Mother and Child, Prague, Czechoslovakia)

Changes in uptake of 3H-estradiol by the female rat brain and pituitary from birth to sexual maturity.

Endocrinology 86(4):899-902, 1970

Taleisnik S, Velasco ME, Astrada JJ (Inst. de Investigacion Medica, Mercedes y Martin Ferreyra, Cordoba, Argentina)

Effect of hypothalamic differentiation on the control of luteinizing hormone secretion.

J Endocr 46(1):1-7, 1970

Voogt JL, Chen CL, Meites J (Dept. of Physiology, Michigan State Univ., East Lansing, Mich. 48823)

Serum and pituitary prolactin levels before, during, and after puberty in female rats.

Amer J Physiol 218(2):396-399, 1970

Wade GN, Zucker I (Dept. of Psychology, Univ. of California, Berkeley, Calif.)

Hormonal modulation of responsiveness to an aversive taste stimulus in rats.

Physiol Behav 5(3):269-273, 1970

Yazaki I (Biological Inst., Faculty of Science, Niigata Univ., Niigata 951, Japan)

Role of the gonad in the functional development of the hypothalamo-hypophyseal system in neonatally gonadectomized rats as studied by behavior of intrasplenic ovarian grafts.

Annotat Zool Jap 43(1):19-22, 1970

Yussman MA, Taymor ML, Miyata J, Pheteplace C (Dept. of Obstetrics and Gynecology, Harvard Medical School, Boston, Massachusetts)

Serum levels of follicle-stimulating hormone, luteinizing hormone, and plasma progestins correlated with human ovulation.

Fertil Steril 21(2):119-125, 1970

H. Sex Behavior and Sex Differentiation

Aron C, Chateau D (Inst. d'Histologie, Faculte de Medecine, Strasbourg, France)

(New findings on the precocious acceptance behavior of the female rat during five-day cycles)

Donnees nouvelles sur le comportement precoce d'acceptation de la ratte au cours de cycles de 5 jours.

C R Soc Biol (Paris) 163(7):1699-1702, 1969 (Fr)

Aron C, Roos J, Asch G (Inst. d'Histologie, Faculte de Medecine, Strasbourg, France)

Effect of removal of the olfactory bulbs on mating behavior and ovulation in the rat.

Neuroendocrinology 6(2):109-117, 1970

Aron C, Roos J, Asch G (Inst. d'Histologie, Faculte de Medecine, Rue Kirschleger, 67-Strasbourg, France)

(The role played by the olfactory afferents in the control of copulatory behavior and in the determination of the time of ovulation in the rat)

Rôle joué par les afférences olfactives dans le contrôle du comportement copulatoire et dans le déterminisme de la ponte ovulaire chez la ratte.

C R Soc Biol (Paris) 163(7):1578-1584, 1969 (Fr)

Beach FA (Dept. of Psychology, Univ. of California, Berkeley, Calif. 94720)

Coital behavior in dogs: VI. Long-term effects of castration upon mating in the male.

J Comp Physiol Psychol 70(3 Pt.2):1-32, 1970

Beach FA (Dept. of Psychology, Univ. of California, Berkeley, Calif.)

Coital behavior in dogs. IX. Sequelae to "coitus interruptus" in males and females.

Physiol Behav 5(3):263-268, 1970

Beach FA, Merari A (Dept. of Psychology, Univ. of California, Berkeley, Calif. 94720)

Coital behavior in dogs: V. Effects of estrogen and progesterone on mating and other forms of social behavior in the bitch.

J Comp Physiol Psychol 70(1 Pt.2):1-22, 1970

Bergquist EH (Dept. of Psychology, Univ. of South Carolina, Columbia, South Carolina 29208)

Output pathways of hypothalamic mechanisms for sexual, aggressive, and other motivated behaviors in opossum.

J Comp Physiol Psychol 70(3):389-398, 1970

Beyer C, McDonald P, Vidal H (Dept. de Investigacion Cientifica, Inst. Mexicano del Seguro Social, Apdo. Postal 73-032, Mexico 73, D.F., Mexico)

Failure of Δ^5 alpha-dihydrotestosterone to elicit estrous behavior in the ovariectomized rabbit.

Endocrinology 86(4):939-941, 1970

- Bullock DW (Dept. of Obstetrics and Gynecology, Albany Medical College, Albany, New York 12208)
 Induction of heat in ovariectomized guinea pigs by brief exposure to estrogen and progesterone.
 Hormone Behav 1(2):137-143, 1970
- Caggiula AR (Dept. of Psychology, Univ. of Pittsburgh, Pittsburgh, Pennsylvania 15213)
 Analysis of the copulation-reward properties of posterior hypothalamic stimulation in male rats.
 J Comp Physiol Psychol 70(3):399-412, 1970
- Campbell AB, McGill TE (Dept. of Biopsychology, Univ. of Chicago, Chicago, Illinois)
 Neonatal hormone treatment and sexual behavior in male mice.
 Hormone Behav 1(2):145-150, 1970
- Chester RV, Zucker I (Dept. Psychol., Univ. California, Berkeley, Calif)
 Influence of male copulatory behavior on sperm transport, pregnancy and pseudopregnancy in female rats.
 Physiol Behav 5(1):35-43, 1970
- Folman Y, Drori D (Dept. of Animal Science, The Volcani Inst. of Agricultural Research, Rehovot, Israel)
 Effects of the frequency of mating on the adrogensensitive organs and sexual behavior.
 Physiol Behav 4(6):1023-1026, 1969
- Gerall AA, McCrady RE (Dept. of Psychology, Tulane Univ., New Orleans, Louisiana 70118)
 Receptivity scores of female rats stimulated either manually or by males.
 J Endocr 46(1):55-59, 1970
- Green R, Luttge WG, Whalen RE (Gender Identity Research Clinic, Dept. of Psychiatry, Univ. of California, Los Angeles, Calif.)
 Induction of receptivity in ovariectomized female rats by a single intravenous injection of estradiol-17beta.
 Physiol Behav 5(2):137-141, 1970
- Haard E, Larsson K (Larsson: Anatomy Inst., Fack, S 400 33 Goteberg 33, Sweden)
 Effects of delaying intromissions on the male rat's mating behavior.
 J Comp Physiol Psychol 70(3):413-416, 1970
- Hart BL (Dept. of Anatomy, School of Veterinary Medicine, Univ. of California, Davis, California)
 Mating behavior in the female dog and the effects of estrogen on sexual reflexes.
 Hormone Behav 1(2):93-104, 1970

Le Boeuf BJ, Allen JL (Crown College, Univ. of California at Santa Cruz, Santa Cruz, California 95060)
Prolonged reinstatement of sexual behavior in castrated male rats with an ether of testosterone, SC-16148.
Hormone Behav 1(2):121-125, 1970

Le Boeuf BJ (Crown College, Univ. of California, Santa Cruz, California 95060)
Copulatory and aggressive behavior in the prepuberally castrated dog.
Hormone Behav 1(2):127-136, 1970

Maraud R, Coulaud H, Stoll R (Lab. de Biologie, Faculte de Medecine, Bordeaux, France)
(Role of a pituitary inhibitor on the production of a testicular inductor responsible for the regression of Muller's duct in the chick embryo)
Role inhibiteur de l'hypophyse sur l'elaboration de l'inducteur testiculaire responsable de la regression des canaux de Muller chez l'embryon de Poulet.
C R Soc Biol (Paris) 163(6):1365-1368, 1969 (Fr)

Margolese MS (2080 Century Park East, Los Angeles, California 90067)
Homosexuality: a new endocrine correlate.
Hormone Behav 1(2):151-155, 1970

McDonald PG, Vidal N, Beyer C (Dept. de Investigacion Cientifica, Inst. Mexicano del Seguro Social, Seccion de Neuroendocrinologia, Mexico 73, D.F.)
Different amounts of gonadal hormones.
1(2):161-172, 1970

Nadler RD (Dept. Psychiat., State Univ. New York, Downstate Medical Center, Brooklyn, N.Y.)
Biphasic influence of progesterone on sexual receptivity of spayed female rats.
Physiol Behav 5(1):95-97, 1970

Narbaitz R, De Robertis EM Jr. (Dept. of Histology, Faculty of Medicine, Univ. of Ottawa, Ottawa, Canada)
Steroid-producing cells in chick intersexual gonads.
Gen Comp Endocr 14(1):164-169, 1970

Saayman GS (Mammal Research Unit, Dept. of Zoology, Univ. Pretoria, Pretoria, South Africa)
The menstrual cycle and sexual behaviour in a troop of free ranging chacma baboons (Papio ursinus).
Folia Primat (Basel) 12(2):81-110, 1970

Segal DS, Whalen RE (Whalen: Dept. of Psychobiology, Univ. of California, Irvine, Calif. 92664)

Effect of chronic administration of p-chlorophenylalanine on sexual receptivity of the female rat.

Psychopharmacologia (Berlin) 16(5):434:438, 1970

Shillito EE (Agricultural Research Council Inst. of Animal Physiology, Babraham, Cambridge, England)

The effect of parachlorophenylalanine on social interaction of male rats.

Brit J Pharmacol 38(2):305-315, 1970

Vaughan MK, O'Steen WK, Vaughan GM (Dept. of Anatomy, Univ. Texas Medical Branch, Galveston, Texas)

Estrous cycle changes after prenatal and neonatal injections of melatonin in normal and androgen-sterilized female rats.

Neuroendocrinology 6(1):10-18, 1970

Also testosterone

Wade GN, Zucker I (Dept. of Psychology, Univ. of California, Berkeley, Calif.)

Taste preferences of female rats: modification by neonatal hormones, food deprivation and prior experience.

Physiol Behav 4(6):935-943, 1969

2. Biogenic Amines and Transmitters in the Nervous System

A. Books and Reviews

Axelrod J, Wurtman R (Lab. of Clinical Science, NIMH, Bethesda, Mr. 20014)

Biological rhythms and the pineal gland

Ment Health Rep 4:27-51, 1970

Discussion of roles of 5-HT and NA.

B. Methods

Quay WB (Dept. of Zoology, Univ. of California, Berkeley, Calif. 94720)

Reactive groups in hormone cytochemistry.

J Histochem Cytochem 18(1):30-37, 1970

Review article (104 ref.). The three classes of hormones discussed are: steroids, proteins, and monoamines.

Zaitseva AA, Pertsev AN, Reznikov IV, Cherenkevich SM

(Use of a fluorescence method for determining adrenaline and noradrenaline in animal tissues)

Zh Prikl Spektrosk 11(4):718-720, 1969 (Rus)

English abstract in Chemical Abstracts 72(9):39664f, 3/2/70

C. Localization

Cottrell GA, Osborne NN (Wellcome Lab. of Pharmacology, Gatty Marine Lab., Univ. of St. Andrews, St. Andrews, Scotland)

Subcellular localization of serotonin in an identified serotonin-containing neurone.

Nature (London) 225(5231):470-472, 1970

"We have examined in detail one particularly large serotonin-neurone, which is readily located in different preparations, in each cerebral ganglion of the slug *Limax maximus*. Results of the experiments show that serotonin is bound within small granulated vesicles of 40 to 100 nm in diameter and also, in certain conditions, in particles which resemble lysosomes."

D. Metabolic/Biochemical Studies

Klein DC, Berg GR, Weller J, Glinsmann W (Lab. of Biomedical Sciences, National Inst. of Child Health and Human Development, Bethesda, Md. 20014).

Pineal gland: dibutyryl cyclic adenosine monophosphate stimulation of labeled melatonin production.

Science 167(3926):1738-1740, 1970

"In organ cultures of intact rat pineal glands, $N^{6}O^{2}$ -dibutyryl adenosine 3',5'-monophosphate stimulates the conversion of tritiated tryptophan to tritiated melatonin, as does L-norepinephrine. Potential sites of stimulation of melatonin production by dibutyryl cyclic adenosine monophosphate are discussed."

E. Effects on Other Systems

Shimizu H, Creveling CR, Daly JW (Lab. of Chemistry, National Inst. of Arthritis and Metabolic Diseases, National Inst. of Health, Bethesda, Md. 20014)

The effect of histamines and other compounds on the formation of adenosine 3',5'-monophosphate in slices from cerebral cortex.

J Neurochem 17(3):441-444, 1970

Partial results indicate: "A variety of compounds structurally related to histamine were tested for their effect on formation of cyclic AMP. Histamine, N-methylhistamine and N,N-dimethylhistamine...were very active." Guinea pig and rabbit tissue used.

F. Chemical and Drug Effects

Kilfore L, Glick B (Poultry Science Dept., Miss. State Univ., State College, Miss. 39762)

Testosterone's influence on brain enzymes in the developing chick.

Poult Sci 49(1):16-22, 1970

Partial results indicate: "The most rapid increase in AChE began between the 15th and 18th day (of incubation) and continued to the 21st day. The difference in brain stem activity following 15 days incubation was inconsistent. Since AChE begins to rise very rapidly at this time, the variation may be due to the actual embryo ages."

G. Interaction with Hormones

Barry J (Lab. d'Histologie, Faculte de Medecine, Place de Verdun, 59-Lille, France)

(Morphological and experimental research on the monoaminergic cells of the hypothalamo-hypophyseal tract)

Recherches morphologiques et experimentales sur les cellules monoaminergiques du tractus hypothalamo-hypophysaire.

Ann Endocr (Paris) 30(6):768-775, 1969 (Fr)

The monoaminergic neurons of the hypothalamo-infundibular tract appear to play a part mainly in the control of the prehypophyseal gonadotropic secretion.

English summary.

Fenwich JC (Dept. of Zoology, Univ. of Sheffield, Sheffield, S10 2TN, England)

Demonstration and effect of melatonin in fish.

Gen Comp Endocr 14(1):86-97, 1970

"Melatonin (N-acetyl-5-methoxytryptamine) was identified in the pineal organ of the Pacific salmon Oncorhynchus tshawytscha ...The store of pineal melatonin in immature salmon was approximately six times as great as that present in mature salmon...Intraperitoneal injections of melatonin (20 mg/fish for 50 days) into goldfish inhibited the increase in gonad size which accompanied increased daily light exposure in those animals which received placebo injections...Melatonin, produced or stored specifically within the pineal organ, appears to exert an inhibitory effect upon gonad functions, possibly by inhibiting the release of a gonadotropic factor."

Hyyppä N, Valavaara M (Dept. of Anatomy, Univ. of Turku, Turku 3, Finland)

The effect of castration and hypophysectomy on the content of noradrenaline and serotonin in the hypothalamus of the rat.

Experientia 26(2):193-194, 1970

(1) "No significant effect of castration was seen on the content of NA and 5-HT in the anterior or posterior hypothalamus (nor) in the cerebral cortex of male rats; (2) The hypophysectomy of long duration (3 months) caused a significant increase of the content of NA in the anterior and posterior hypothalamus of female rats, but it had no effect on the NA content in the cerebral cortex. Also the amount of 5-HT increased almost significantly in the posterior hypothalamus."

Kamberi IA, Dobayashi Y (Kobayashi: Worcester Foundation for Experimental Biology, Shrewsbury, Mass. 01545)

Monoamine oxidase activity in the hypothalamus and various other brain areas and in some endocrine glands of the rat during the estrus cycle.

J Neurochem 17(2):261-268, 1970

"Activity of MAO changed cyclically in the hypothalamus, amygdala, adrenals and ovaries...During the estrus cycle much lower levels of activity of MAO were demonstrated in other regions of the brain (frontal and lateral cerebral cortex), in the pituitary and in the uterus, none of which showed cyclical changes."

Kurachi K, Hirota K (Dept. of Obstetrics and Gynecology, Osaka Univ. Medical School, Osaka, Japan)

Catecholamine metabolism in rat's brain related with sexual cycle.

Endocr Jap Suppl 1:69-73, 1969

Partial results found were: significant change in diencephalon NA content in the following endocrinological conditions: (a) sexual cycle; (b) oophorectomy; (c) administration of estrogen after oophorectomy. It was concluded from experimental results "that the hypothalamic catecholamine may play an important role in gonadotropin secretion control."

Leonardelli J (Lab. d'Histologie, Faculte de Medecine, Place Verdun, 59-Lille, France)

(Hypothalamic catecholamines and control of the oestrous cycle in guinea pigs and rats)

Catecholamines hypothalamiques et controle du cycle oestral chez le cobaye et le rat.

Ann Endocr (Paris) 30(6):783-788, 1969 (Fr)

Systemic administration of dopamine to rats causes an interruption of LH. This result can be related to the fact that monoaminergic neurons of the ventral tuber show hyperactivity in guinea pigs during the pre-ovulatory period in the course of which the gonadotropic functions are stimulated.

English summary.

Segal DS, Whalen RE (Whalen: Dept. of Psychobiology, Univ. of California, Irvine, Calif. 92664)

Effect of chronic administration of p-chlorophenylalanine on sexual receptivity of the female rat.

Psychopharmacologia (Berlin) 16(5):434-438, 1970

"It has been postulated that in the female rat sexual receptivity is inhibited by serotonin. This hypothesis was examined by comparing the effects of estrogen and progesterone with the effects of estrogen plus pCPA, a depletor of brain serotonin, on the induction of sexual receptivity. Progesterone was found to facilitate the effects of estrogen on the induction of receptivity. pCPA which induced low levels of brain serotonin did not facilitate estrogen induced receptivity. It was concluded that no direct relationship exists between brain serotonin and receptivity."

Schneider HPG, McCann SM (Dept. of Physiology, Univ. of Texas Southwestern Medical School, Dallas, Tex. 75235)

Luteinizing hormone-releasing factor discharged by dopamine in rats.

J Endocr 46(3):401-402, 1970

"The data presented indicate the existence of a dopaminergic transmission for the LRF secretory neurons."

Yano S, Kumagai A, Yamamura Y (Third Dept. of Internal Medicine, Osaka Univ. Hospital, Osaka, Japan)

Changes of oxytocin contents in the neurohypophysis of rats after norepinephrine treatment.

Endocr Jap Suppl 1:93-97, 1969

Partial results indicate that after NE treatment, the neurohypophysis oxytocin content was "found to decrease to about 70% of control value at 30 min. after treatment, and the repletion of oxytocin in the lobes was found in 180 min. after treatment."

3. Sleep Bulletin No. 54, April 3, 1970

A. Neurophysiology - General

Ghata J, Halberg F, Reinberg A, Siffre M (Reinberg: Lab. Physiologie Fondation A. de Rothschild, 29, rue Manin, F-75-Paris, France)

(Societally desynchronized circadian rhythms in sleep-wakefulness, rectal temperature and urinary 17-hydroxycorticosteroid excretion of two healthy mature human subjects)

Rythmes circadiens desynchronises du cycle social (17-hydroxycorticosteroides, temperature rectale, veille-sommeil) chez sujets adultes sains.

Ann Endocr (Paris) 30(2):245-260, 1969 (Fr)

English summary

4. Memo of Current Books in the Brain Sciences

A. BIS - 58

THE NEUROPSYCHOLOGY OF DEVELOPMENT; A SYMPOSIUM, ed. by R. L. Isaacson. New York, John Wiley, 1968. 177pp. Biomed WL 102 N397 1968

Contents:

Steroid hormones and the neuropsychology of development.

E.S. Valenstein

Behavioral and anatomical sequelae of the infant limbic system.

R.L. Isaacson, A.J. Nonneman and L.W. Schmaltz

Effects of induction age and size of frontal lobe lesions on learning in infant monkeys. H. F. Harlow, A.J. Blomquist,

C. I. Thompson, K.A. Schiltz and M.K. Harlow

Sparing of function following localized brain lesions in neonatal monkeys. A. Kling and T.J. Tucker

The effect of age on the outcome of central nervous system disease in children. E.H. Lenneberg

APPENDIX

ADENOSINE CYCLIC 3',5'-PHOSPHATE

- Drugs and the mechanism of insulin secretion. Kizer JS, et al. *Advances Pharmacol* 7:91-115, 1969 (135 ref.)
On the regulation of glycogen metabolism in *Tetrahymena*. Blum JJ. *Arch Biochem* 137:65-74, Mar 70
Solubilization of myocardial adenyl cyclase. Levey GS. *Biochem Biophys Res Commun* 38:86-92, 6 Jan 70
Desensitization of yeast phosphofructokinase to ATP-inhibition by a protein fraction from yeast. Atzpodien W, et al. *Europ J Biochem* 12:6-10, Jan 70
Interconversion in vitro of two forms of liver phosphorylase phosphatase. Merlevede W, et al. *Europ J Biochem* 11:499-502, Dec 69
The effect of chain length on the phosphorolysis of oligonucleotides by polynucleotide phosphorylase. Chou JY, et al. *J Biol Chem* 245:1005-11, 10 Mar 70
Kinetic analysis of the phosphorolysis of oligonucleotides by polynucleotide phosphorylase. Chou JY, et al. *J Biol Chem* 245:995-1004, 10 Mar 70
Steroid hormones: effects on adenyl cyclase activity and adenosine 3',5'-monophosphate in target tissues. Rosenfeld MG, et al. *Science* 168:253-5, 10 Apr 70

ADMINISTRATION & DOSAGE

- Effects of exogenous adenosine 3',5'-monophosphate in man. 3. Increased response and tolerance to the dibutyryl derivative. Levine RA. *Clin Pharmacol Ther* 11:238-43, Mar-Apr 70

ADVERSE EFFECTS

- Effects of exogenous adenosine 3',5'-monophosphate in man. 3. Increased response and tolerance to the dibutyryl derivative. Levine RA. *Clin Pharmacol Ther* 11:238-43, Mar-Apr 70

ANALYSIS

- The influence of polyenes on cyclic 3',5'-AMP formation and glucose utilization in thyroid. Butcher FR, et al. *Biochim Biophys Acta* 192:409-19, 30 Dec 69
Isolation of a Golgi apparatus-rich fraction from rat liver. II. Enzymatic characterization and comparison with other cell fractions. Cheetham RD, et al. *J Cell Biol* 44:492-500, Mar 70
Parathyroid hormone, 3',5' AMP, Ca⁺⁺, and renal gluconeogenesis. Nagata N, et al. *Proc Nat Acad Sci USA* 65:368-74, Feb 70
Radioimmunoassay for the measurement of adenosine 3',5'-cyclic phosphate. Steiner AL, et al. *Proc Nat Acad Sci USA* 64:367-73, Sep 69
[Control of ATP levels in stimulated pancreatic B-cells] Hellman B, et al. *Acta Diabet Lat [Suppl]* 1:597-611, Sep 69 (Mul)

ANTAGONISTS & INHIBITORS

- Conditions for the formation, partial purification and assay of an inhibitor of adenosine 3',5'-monophosphate. Murad F, et al. *Biochim Biophys Acta* 192:430-45, 30 Dec 69
Inhibition by thyrocalcitonin of the mitogenic actions of parathyroid hormone and cyclic adenosine=3',5'-monophosphate on rat thymocytes. Macmanus JP, et al. *Endocrinology* 86:934-9, Apr 70

BIOSYNTHESIS

- Catecholamines and metabolism of human adipose tissue. I. Comparison between in vitro effects of noradrenaline, adrenaline and theophylline on lipolysis in omental adipose tissue. Ostman J, et al. *Acta Med Scand* 186:241-6, Oct 69
Importance of aerobic and anaerobic metabolism in renal concentration and dilution. Martinez-Maldonado M, et al. *Amer J Physiol* 218:1076-81, Apr 70
The effect of Ca²⁺ on the adenyl cyclase of calf brain. Bradham LS, et al. *Biochim Biophys Acta* 201:250-60, 24 Feb 70
The influence of polyenes on cyclic 3',5'-AMP formation and glucose utilization in thyroid. Butcher FR, et al. *Biochim Biophys Acta* 192:409-19, 30 Dec 69
Response of chick oviduct adenyl cyclase to steroid hormones. Kissel JH, et al. *Endocrinology* 86:1019-23, May 70
Inhibition of rat liver adenyl cyclase by adenosine and adenine nucleotides. Moriwaki K, et al. *Experientia* 26:22, 15 Jan 70
Effect of sodium fluoride on the epinephrine response of liver and hepatoma adenyl cyclase. Pennington SN, et al. *Experientia* 26:139-40, 1970
Stimulation by growth hormone and dexamethasone of labeled cyclic adenosine 3',5'-monophosphate accumulation by white fat cells. Moskowitz J, et al. *J Biol Chem* 245:1101-7, 10 Mar 70
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REVIEW SECTION

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Stud Cercet Endocr 20:307-13, 1969 (48 ref.) (Rum)

DIAGNOSIS

[Nuclear medicine and endocrinology] Oberdisse K, et al.
Internist (Berlin) 10:325-39, Sep 69 (47 ref.) (Ger)

ENDOCRINE GLANDS

PHYSIOLOGY

[Relations between the skin and endocrine glands] Ionescu-Tirgoviste C.
Stud Cercet Endocr 20:315-25, 1969 (49 ref.) (Rum)

PHYSIOPATHOLOGY

Endocrine effects of electroconvulsive therapy: a review. Beuret L, et al.
Psychiat Quart 43:650-61, 1969 (56 ref.)

ESTRIOL

URINE

Assessment of fetal health by analysis of maternal steroids. Reynolds JW.
J Pediatr 76:464-9, Mar 70 (33 ref.)

ESTROGENS

METABOLISM

Oestrogen metabolism in liver disease. Adlercreutz H.
J Endocr 46:129-63, Jan 70 (275 ref.)

FSH

THERAPEUTIC USE

The clinical significance of the FSH-LH ratio in gonadotropin preparations of human origin. A review. Louwerens B.
Acta Obstet Gynec Scand 48:Suppl 1:31-40, 1969 (20 ref.)

GLUCOCORTICOIDS

PHYSIOLOGY

[Modification of hormone action, with special reference to interaction among pituitary, pancreatic and adrenocortical hormones] Nakagawa H.
Protein (Tokyo) 14:1399-431, Dec 69 (297 ref.) (Jap)

THERAPEUTIC USE

Antiasthmatic action of corticosteroids: a review of the literature on their mechanism of action. Aviado DM, et al. J Clin Pharmacol 10:3-11, Jan-Feb 70 (52 ref.)

GONADOTROPINS

THERAPEUTIC USE

Induction of ovulation with gonadotrophins. Crooke AC. Brit Med Bull 26:17-21, Jan 70 (32 ref.)

GONADOTROPINS, PITUITARY

PHARMACODYNAMICS

Non-steroidal antifertility agents affecting brain mechanisms. Piva F, et al.
Bull WHO 41:275-88, 1969 (125 ref.)

THERAPEUTIC USE

The clinical significance of the FSH-LH ratio in gonadotropin preparations of human origin. A review. Louwerens B.
Acta Obstet Gynec Scand 48:Suppl 1:31-40, 1969 (20 ref.)

GONADS

EMBRYOLOGY

Biosynthesis of steroid hormones by the embryonic gonads of vertebrates. Haffen K.
Advances Morph 8:285-306, 1970 (106 ref.)

HERMAPHRODITISM

CLASSIFICATION

[Classification of intersexuality] Boczkowski K.
Pol Tyg Lek 25:186-8, 2 Feb 70 (24 ref.) (Pol)

HORMONES

ANALYSIS

Reactive groups in hormone cytochemistry. Quay WB.
J Histochem Cytochem 18:30-7, Jan 70 (104 ref.)
Localization of hormones by autoradiography and other histochemical techniques. A critical review. Stumpf WE. J Histochem Cytochem 18:21-9, Jan 70 (76 ref.)

PHYSIOLOGY

The influence of hormones on melanogenesis. Hall PF.
Aust J Derm 10:125-39, Dec 69 (48 ref.)

SECRETION

[General data on human pregnancy hormonology] Jayle MF, et al.
Path Biol (Paris) 17:769-75, Aug-Sep 69 (55 ref.) (Fre)

THERAPEUTIC USE

Endocrinologic factors in the design of more selective antitumor agents. Hall TC.
Cancer Res 29:2412-6, Dec 69 (44 ref.)

HYPOPITUITARISM

[Sheehan's hypopituitary syndrome (review of the literature)] Nikolaichuk LV.
Ter Arkh 41:7-11, Jul 69 (68 ref.) (Rus)

HYPOTHALAMUS

PHYSIOLOGY

The hypothalamus and control of ovulation. Harris GW, et al. Brit Med Bull 26:3-9, Jan 70 (103 ref.)
Food intake and brain temperature.
Nutr Rev 28:17-20, Jan 70
Reexamination of the role of the hypothalamus in motivation. Valenstein ES, et al.
Psychol Rev 77:16-31, Jan 70 (39 ref.)
[Control mechanism of feeding] Omura Y.
Protein (Tokyo) 14:1248-61, Dec 69 (63 ref.) (Jap)
[Transmission of information of hunger and thirst and its control] Shimazu T.
Protein (Tokyo) 14:1216-47, Dec 69 (90 ref.) (Jap)

LACTATION

Components in genetic variance in milk yield. Lee AJ, et al. J Dairy Sci 52:780-9, Jun 69 (20 ref.)

LH

THERAPEUTIC USE

The clinical significance of the FSH-LH ratio in gonadotropin preparations of human origin. A review. Louwerens B.
Acta Obstet Gynec Scand 48:Suppl 1:31-40, 1969 (20 ref.)

REVIEW SECTION

TESTIS

OSTEOPOROSIS

[Osteoporosis] Birkenhäger JC.
Nederl T Geneesk 114:509-14, 21 Mar 70 (59 ref.) (Dut)

OVULATION

The hypothalamus and control of ovulation. Harris GW,
et al. Brit Med Bull 26:3-9, Jan 70 (103 ref.)

DRUG EFFECTS

Induction of ovulation with gonadotrophins. Crooke
AC. Brit Med Bull 26:17-21, Jan 70 (32 ref.)
Non-steroidal antifertility agents affecting brain
mechanisms. Piva F, et al.
Bull WHO 41:275-88, 1969 (125 ref.)
[Clomiphene in the treatment of patients with anovular
sterility] Hansen KB, et al.
Ugeskr Laeg 131:2248-52, 18 Dec 69 (32 ref.) (Dan)

PARATHYROID HORMONE

PHYSIOLOGY

Endocrine regulation of calcium metabolism. Copp DH.
Ann Rev Physiol 32:61-86, 1970 (180 ref.)

PHEOCHROMOCYTOMA

DRUG THERAPY

[Advancement in preoperative treatment of patients
with pheochromocytoma] Mičić R.
Srpski Arh Celok Lek 97:97-104, Jan 69 (23 ref.) (Ser)

SURGERY

[Advancement in preoperative treatment of patients
with pheochromocytoma] Mičić R.
Srpski Arh Celok Lek 97:97-104, Jan 69 (23 ref.) (Ser)

PITUITARY GLAND

PHYSIOLOGY

[Function of diencephalon-hypophyseal system: 1969
Japan Medical Association prize winning thesis] Tsuji
S. J Jap Med Ass 63:64-78, 1 Jan 70 (23 ref.) (Jap)

PITUITARY HORMONE RELEASING FACTORS

[Growth hormone secretion stimulating hormone]
Sawano S, et al.
Clin Endocr (Tokyo) 17:977-84, Dec 69 (36 ref.) (Jap)

PITUITARY NEOPLASMS

COMPLICATIONS

Pituitary apoplexy. Lopez IA.
J Oslo City Hosp 20:17-27, Feb 70 (13 ref.)

PLACENTA

RADIOGRAPHY

[Radioisotope placentography (review of the foreign
literature)] Kholin VV, et al.
Med Radiol (Moskva) 14:69-73, Feb 69 (26 ref.) (Rus)

RENIN

[Renin and angiotensin] Tomaszewski J, et al.
Postepy Biochem 16:21-32, 1970 (63 ref.) (Pol)

PHYSIOLOGY

[Maintenance of blood pressure, with special reference
to renin-angiotensin system] Yamamura Y, et al.
Protein (Tokyo) 14:1374-86, Dec 69 (33 ref.) (Jap)

SECRETION

[Renin-angiotensin-aldosterone system from the
clinical viewpoint] Siegenthaler W, et al.
Deutsch Med Wschr 95:411-8, 20 Feb 70 (138 ref.)
(Ger)

[The renin-angiotensin-aldosterone system] Markov
KhM. Kardiologiya 9:132-41, Sep 69 (Rus)

RICKETS

METABOLISM

The effect of vitamin D on absorption of calcium and
the template activity of chromatin in intestines of rats
and chicks. Nutr Rev 28:21-3, Jan 70

SEX CHROMOSOME ABNORMALITIES

Human chromosome abnormalities as related to
physical and mental dysfunction. Heller JH.
J Hered 60:239-48, Sep-Oct 69 (93 ref.)

SEX DIFFERENTIATION DISORDERS

CLASSIFICATION

[Classification of intersexuality] Boczkowski K.
Pol Tyg Lek 25:186-8, 2 Feb 70 (24 ref.) (Pol)

SEX HORMONES

BIOSYNTHESIS

Biosynthesis of steroid hormones by the embryonic
gonads of vertebrates. Haffen K.
Advances Morph 8:285-306, 1970 (106 ref.)

PHARMACODYNAMICS

[Sex differences of enzyme activities in different
organs] Langecker H.
Arzneimittelforschung 19:1769-77, Nov 69 (130 ref.)
(Ger)

PHYSIOLOGY

Reproduction. Armstrong DT.
Ann Rev Physiol 32:439-70, 1970 (274 ref.)
The evidence for luteolysin. Rowson LE.
Brit Med Bull 26:14-6, Jan 70 (8 ref.)

SOMATOTROPIN

[Human growth hormone] Illig R, et al.
Klin Wschr 47:118-23, 1 Feb 69 (159 ref.) (Ger)

PHYSIOLOGY

[Modification of hormone action, with special
reference to interaction among pituitary, pancreatic
and adrenocortical hormones] Nakagawa H.
Protein (Tokyo) 14:1399-431, Dec 69 (297 ref.) (Jap)

SECRETION

[Growth hormone secretion stimulating hormone]
Sawano S, et al.
Clin Endocr (Tokyo) 17:977-84, Dec 69 (36 ref.) (Jap)

STEROIDS

METABOLISM

The investigation of steroid metabolism in early
infancy. Mitchell FL, et al.
Advances Clin Chem 12:141-215, 1969
The influence of dietary fatty acids on steroid
excretion. Nutr Rev 28:34-6, Feb 70 (9 ref.)

TESTIS

METABOLISM

Sites of hormone production in the mammalian testis,
and their significance in the control of male fertility.
Lacy D, et al. Brit Med Bull 26:87-91, Jan 70 (26 ref.)

PHYSIOLOGY

Morphogenetic aspects of acrosome formation and
reaction. Dan JC.
Advances Morph 8:1-39, 1970 (77 ref.)

THIOUREA

The chemistry of carbonylhydrazide and thiocarbonylhydrazide. Kurzer F, et al.
Chem Rev 70:111-49, Feb 70 (278 ref.)

THYROCALCITONIN

[Calcitonin, its properties and the role in calcium homeostasis] Geisler J.
Postepy Biochem 16:3-19, 1970 (87 ref.) (Pol)

PHYSIOLOGY

Endocrine regulation of calcium metabolism. Copp DH.
Ann Rev Physiol 32:61-86, 1970 (180 ref.)

SECRETION

[Calcitonin-thyrocalcitonin, hormone of the ultimobranchial body] Perraro F.
Folia Endocr (Roma) 22:119-65, Apr 69 (Ita)

THYROID DISEASES

DIAGNOSIS

[Nuclear medicine and endocrinology] Oberdisse K, et al.
Internist (Berlin) 10:325-39, Sep 69 (47 ref.) (Ger)

THYROID HORMONES

PHYSIOLOGY

[Thyroid hormone and catecholamines] Tomita K.
Protein (Tokyo) 14:1432-41, Dec 69 (33 ref.) (Jap)

THYROID NEOPLASMS

Cancer of the thyroid gland. Beahrs OH, et al.
Curr Probl Surg 1-38, Dec 69 (41 ref.)

VITAMIN D

Some recent results in the chemistry and stereochemistry of vitamin D and its isomers. Sanders GM, et al.
Fortschr Chem Organ Naturst 27:131-57, 1969 (86 ref.)

PHARMACODYNAMICS

The effect of vitamin D on absorption of calcium and the template activity of chromatin in intestines of rats and chicks. Nutr Rev 28:21-3, Jan 70

METHOD SECTION

This section is meant to be an alerting device for articles which describe: 1) new methods or techniques, 2) modifications of existing methods or 3) comparisons of different methods. For methods on a particular substance or for a specific type of method, see the subject index or the subject section (particularly the sub-headings; analysis, blood, cerebrospinal fluid, chemical synthesis, isolation & purification, and urine).

ACTIVATION ANALYSIS

Partial body in vivo activation analysis using epithermal and fast neutrons. Boddy K. Phys Med Biol 15:156, Jan 70

*ACTIVATION ANALYSIS/ BONE AND BONES, analysis/ CALCIUM, analysis/ HUMAN/ HYPERTHYROIDISM, diagnosis/ *IODINE, analysis/ IODINE ISOTOPES/ METHODS/ *THYROID GLAND, analysis

Analysis of stable iodinated insulin using neutron activation techniques. Cardarelli JA, et al. Phys Med Biol 15:157, Jan 70

*ACTIVATION ANALYSIS/ HUMAN/ IMMUNOASSAY/ *INSULIN, analysis/ INSULIN, metabolism/ *IODINE ISOTOPES, analysis/ METHODS

AUTOANALYSIS

A mechanized system for the determination of ATP + ADP, 2,3-diphosphoglycerate, glucose 1,6-diphosphate and lactate in small amounts of blood cells. Loos JA, et al.

Biochim Biophys Acta 201:185-95, 24 Feb 70

*ADENINE NUCLEOTIDES, blood/ ADENOSINE TRIPHOSPHATE, blood/ AUTOANALYSIS/ *ERYTHROCYTES, analysis/ FLUOROMETRY/ *GLYCEROPHOSPHATES, blood/ *HEXOSEPHOSPHATES, blood/ HUMAN/ INDICATORS AND REAGENTS/ *LACTATES, blood/ LYMPHOCYTES, analysis/ METALS/ METHODS

A semiautomated technic for radioimmunoassay. Double antibody assay of insulin. Haas ML, et al. Diabetes 19:127-31, Feb 70

*AUTOANALYSIS/ AUTOANALYSIS, instrumentation/ *INSULIN, blood/ METHODS/ *RADIOIMMUNOASSAY/ RADIOIMMUNOASSAY, instrumentation

Automated determination of urinary corticosteroids. Sparagana M, et al. Steroids 15:353-71, Mar 70

*ADRENAL CORTEX HORMONES, urine/ *AUTOANALYSIS/ CIRCADIAN RHYTHM/ COLORIMETRY/ COMPUTERS/ CORTISONE, urine/ DEHYDROEPIANDROSTERONE, urine/ FEMALE/ GLUCURONIDASE, metabolism/ HUMAN/ 17-HYDROXYCORTICOSTEROIDS, urine/ 17-KETOSTEROIDS, urine/ MALE/ METHODS/ SPECTRUM ANALYSIS/ URINE, enzymology

[Determination of serum protein-bound iodine using an auto analyzer] Ido H, et al.

Jap J Clin Path 18:67-9, Jan 70 (Jap)

*AUTOANALYSIS/ *BLOOD PROTEINS, analysis/ *IODINE, blood/ METHODS/ PROTEIN BINDING/ RESINS, pharmacodynamics

INSTRUMENTATION

A semiautomated technic for radioimmunoassay. Double antibody assay of insulin. Haas ML, et al. Diabetes 19:127-31, Feb 70

*AUTOANALYSIS/ AUTOANALYSIS, instrumentation/ *INSULIN, blood/ METHODS/

*RADIOIMMUNOASSAY/
RADIOIMMUNOASSAY, instrumentation

BIOLOGICAL ASSAY

Different slopes of the dose-response curves of human and bovine TSH in the McKenzie bioassay. Hershman JM. Endocrinology 86:1004-7, May 70

ANIMAL EXPERIMENTS/ *BIOLOGICAL ASSAY/ CATTLE/ HUMAN/ IODINE ISOTOPES, blood/ METHODS/ MICE/ PITUITARY GLAND, analysis/ *THYROTROPIN, administration & dosage/ THYROTROPIN, analysis/ THYROTROPIN, isolation & purification/ *THYROTROPIN, standards

A radioimmunoassay for rhesus monkey luteinizing hormone (RhLH). Monroe SE, et al.

Endocrinology 86:1012-8, May 70

BIOLOGICAL ASSAY/ CASTRATION/ CHLORAMINES/ CHROMATOGRAPHY, ION EXCHANGE/ FSH, analysis/ FSH, blood/ GEL FILTRATION/ GONADOTROPINS, CHORIONIC, blood/ GUINEA PIGS/ HYPOPHYSECTOMY/ IODINE ISOTOPES/ LH, analysis/ *LH, blood/ LH, standards/ METHODS/ *MONKEYS/ PITUITARY GLAND, analysis/ RABBITS/ *RADIOIMMUNOASSAY/ THYROTROPIN, analysis

Immunological cross-reactivity between monkey and human thyroid stimulating hormone as determined by radioimmunoassay: a rapid procedure for purifying labeled 125I-TSH. Wherry FE, et al.

Endocrinology 86:769-73, Apr 70

ANIMAL EXPERIMENTS/ BIOLOGICAL ASSAY/ CASTRATION/ FASTING/ HUMAN/ 17-HYDROXYCORTICOSTEROIDS, urine/ HYPOPHYSECTOMY/ IODINE ISOTOPES/ METHODS/ MONKEYS/ *RADIOIMMUNOASSAY/ *THYROTROPIN, blood/ THYROTROPIN, isolation & purification/ THYROXINE, pharmacodynamics

A micromethod for the determination of serum thyroxine: studies of serum thyroxine concentrations and thyroxine binding in rat serum. Dalrymple DE, et al. J Lab Clin Med 75:325-35, Feb 70

ANIMAL EXPERIMENTS/ BARBITURATES, administration & dosage/ BIOLOGICAL ASSAY/ IODINE ISOTOPES, DIAGNOSTIC/ METHODS/ RATS/ THYROTROPIN, blood/ *THYROXINE, blood/ *THYROXINE-BINDING PROTEIN

Chemical quantification of melanophore stimulating substances using polyacrylamide gel disc electrophoresis. Preslock JP, et al. Life Sci 9:215-28, 22 Feb 70

ACRYLATES/ ADRENAL GLANDS, metabolism/ ANIMAL EXPERIMENTS/ BIOLOGICAL ASSAY/ DARK ADAPTATION/ *ELECTROPHORESIS, DISK/ FROGS/ GELS/ IN VITRO/ LIGHT/ MALE/ METHODS/ *MSH, analysis/ PITUITARY GLAND, analysis/ POLYMERS/ SKIN, metabolism

See also pages 254 - 255.

CENTRIFUGATION

METHOD SECTION

CENTRIFUGATION

Radioimmunoassay of plasma estrone and estradiol. Mikhail G, et al. *Steroids* 15:333-52, Mar 70
ANIMAL EXPERIMENTS/ ANTIBODY FORMATION/ ANTIGEN-ANTIBODY REACTIONS/ CATTLE/ CENTRIFUGATION/ CHROMATOGRAPHY/ COLD/ *ESTRADIOL, blood/ ESTRADIOL, pharmacodynamics/ *ESTRONE, blood/ ESTRONE, pharmacodynamics/ FEMALE/ FSH, blood/ GONADOTROPINS, blood/ HYDROGEN-ION CONCENTRATION/ LH, blood/ MENSTRUATION/ METHODS/ PROTEIN BINDING/ *RADIOIMMUNOASSAY/ SERUM ALBUMIN, BOVINE/ SHEEP/ TEMPERATURE/ TIME FACTORS/ TRITIUM

[Modification of the Hales-Randle procedure for the radioimmunoassay of insulin] Quabbe HJ. *Diabetologia* 5:101-7, Apr 69 (Ger)
ANIMAL EXPERIMENTS/ CENTRIFUGATION/ DOGS/ ENGLISH ABSTRACT/ FILTRATION/ *INSULIN, blood/ METHODS/ *RADIOIMMUNOASSAY

CHEMISTRY

A new method for evaluation of urinary estriol determinations. Nelson GH. *Amer J Obstet Gynec* 106:649-55, Mar 70
CHEMISTRY/ DEHYDROEPIANDROSTERONE/ ESTRADIOL/ ESTRIOL, biosynthesis/ *ESTRIOL, urine/ ESTRONE/ FEMALE/ FETAL DEATH, urine/ *FETAL DISEASES, diagnosis/ FETUS, metabolism/ GESTATIONAL AGE/ HUMAN/ INFANT MORTALITY/ INFANT, NEWBORN/ METHODS/ PLACENTA, metabolism/ PREGNANCY

Improved procedure for formation of epinephrine and norepinephrine fluorophors by the trihydroxyindole reaction. Valori C, et al.

Anal Biochem 33:158-67, Jan 70
ADRENOCROME/ ANTIOXIDANTS/ CHEMISTRY/ COPPER/ DIMERCAPROL/ DRUG STABILITY/ *EPINEPHRINE, analysis/ FLUORESCENCE/ FLUOROMETRY/ FORMALDEHYDE/ *INDOLES/ METHODS/ *NOREPINEPHRINE, analysis

CHEMISTRY, ANALYTICAL

The measurement of pregnanediol sulphate in amniotic fluid. Clarke A, et al. *J Endocr* 46:123-4, Jan 70
*AMNIOTIC FLUID, analysis/ CHEMISTRY, ANALYTICAL/ CHROMATOGRAPHY/ CHROMATOGRAPHY, GAS/ FEMALE/ HUMAN/ METHODS/ PREGNANCY/ *PREGNANEDIOL, analysis

CHEMISTRY, CLINICAL

Measurement of urinary free corticoids by competitive protein-binding radioassay in hypoadrenal states. Hsu TH, et al. *J Clin Endocr* 30:443-8, Apr 70
*ADRENAL CORTEX HORMONES, urine/ ADRENAL GLAND HYPOFUNCTION, diagnosis/ *ADRENAL GLAND HYPOFUNCTION, urine/ CARBON ISOTOPES/ CHEMISTRY, CLINICAL/ CHROMATOGRAPHY, PAPER/ CUSHING'S SYNDROME, diagnosis/ DEXAMETHASONE, diagnostic use/ HUMAN/ HYDROCARBONS, HALOGENATED/ HYDROCORTISONE, metabolism/ *HYDROCORTISONE, urine/ METABOLIC CLEARANCE RATE/ METHODS/ PITUITARY-ADRENAL FUNCTION TESTS/ *PROTEIN BINDING/ RADIOISOTOPE DILUTION TECHNIC/ TRITIUM

[Simplified detection of catecholamines in urine] Simon KH. *Med Mschr* 23:516-7, Nov 69 (Ger)
*CATECHOLAMINES, urine/ CHEMISTRY, CLINICAL/ HUMAN/ METHODS

CHROMATOGRAPHY

Determination of estrogens, androgens, progesterone, and related steroids in human plasma and urine. Bush

IE. *Advances Clin Chem* 12:57-139, 1969
ADRENAL CORTEX HORMONES, biosynthesis/ *ANDROGENS, metabolism/ ANDROSTANES, analysis/ AUTOMATION/ CHROMATOGRAPHY/ ESTRIOL, analysis/ *ESTROGENS, metabolism/ HUMAN/ 17-HYDROXYCORTICOSTEROIDS, analysis/ 17-KETOSTEROIDS, analysis/ METHODS/ PREGNANEDIOL, analysis/ *PROGESTERONE, metabolism/ STEROLS, analysis/ TESTOSTERONE, blood/ TESTOSTERONE, urine

A method for the estimation of the catecholamines and their metabolites in brain tissue. Crawford TB, et al. *Brit J Pharmacol* 38:56-71, Jan 70
ANIMAL EXPERIMENTS/ *BRAIN CHEMISTRY/ *CATECHOLAMINES, analysis/ CATECHOLAMINES, metabolism/ CHROMATOGRAPHY/ DOPA, analysis/ DOPAMINE, analysis/ EPINEPHRINE, analysis/ FLUOROMETRY/ METHODS/ NOREPINEPHRINE, analysis/ RATS/ TYRAMINE, analysis

A simple method for the extraction of steroids from urine. Shackleton CH, et al. *Clin Chim Acta* 27:354-6, Feb 70
ADULT/ ANDROSTANES/ *CHROMATOGRAPHY/ CHROMATOGRAPHY, GAS/ CHROMATOGRAPHY, ION EXCHANGE/ HUMAN/ INFANT/ METHODS/ *STERIODS, isolation & purification/ STERIODS, urine/ TRITIUM

The measurement of pregnanediol sulphate in amniotic fluid. Clarke A, et al. *J Endocr* 46:123-4, Jan 70
*AMNIOTIC FLUID, analysis/ CHEMISTRY, ANALYTICAL/ CHROMATOGRAPHY/ CHROMATOGRAPHY, GAS/ FEMALE/ HUMAN/ METHODS/ PREGNANCY/ *PREGNANEDIOL, analysis

Relationship of the P:O ratio to thyroid hormone content of isolated rat liver mitochondria. Heninger RW, et al. *Proc Soc Exp Biol Med* 133:110-3, Jan 70
ANIMAL EXPERIMENTS/ CHROMATOGRAPHY/ GLUTAMATES, metabolism/ IRON ISOTOPES/ METHODS/ *MITOCHONDRIA, LIVER, analysis/ OXIDATIVE PHOSPHORYLATION/ *OXYGEN, analysis/ *PHOSPHORUS, analysis/ RATS/ THYROID GLAND, physiology/ THYROIDECTOMY/ *THYROXINE, analysis/ *TRIIODOTHYRONINE, analysis

Radioimmunoassay of plasma estrone and estradiol. Mikhail G, et al. *Steroids* 15:333-52, Mar 70
ANIMAL EXPERIMENTS/ ANTIBODY FORMATION/ ANTIGEN-ANTIBODY REACTIONS/ CATTLE/ CENTRIFUGATION/ CHROMATOGRAPHY/ COLD/ *ESTRADIOL, blood/ ESTRADIOL, pharmacodynamics/ *ESTRONE, blood/ ESTRONE, pharmacodynamics/ FEMALE/ FSH, blood/ GONADOTROPINS, blood/ HYDROGEN-ION CONCENTRATION/ LH, blood/ MENSTRUATION/ METHODS/ PROTEIN BINDING/ *RADIOIMMUNOASSAY/ SERUM ALBUMIN, BOVINE/ SHEEP/ TEMPERATURE/ TIME FACTORS/ TRITIUM

[Separation of tetrachlorfluorescein derivatives iodinated to different degrees. I. Adsorption chromatography on aluminum oxide] Santora J, et al. *Cesk Farm* 18:451-6, Nov 69 (Cze)
ALKALIES, analysis/ *ALUMINUM/ *CHROMATOGRAPHY/ ENGLISH ABSTRACT/ *FLUORESCENCE, analysis/ *IODINE, analysis/ METHODS/ *OXIDES/ POTENTIOMETRY

[Rapid determination of plasma estrone, estradiol (17 beta) and estriol] Castanier M, et al. *C R Acad Sci [D] (Paris)* 270:843-6, 9 Feb 70 (Fre)
CHROMATOGRAPHY/ CHROMATOGRAPHY, THIN LAYER/ *ESTRADIOL, blood/ *ESTRIOL, blood/ *ESTRONE, blood/ METHODS/ SULFONIC ACIDS/ TRITIUM

See also pages 254 - 255.

METHOD SECTION

CHROMATOGRAPHY, GAS

A sensitive method for the determination of prostaglandins by gas chromatography with electron-capture detection. Jouvenaz GH, et al. *Biochim Biophys Acta* 202:231-4, 10 Feb 70
ANIMAL EXPERIMENTS/
*CHROMATOGRAPHY, GAS/ ELECTRONS/
MALE/ METHODS/ *PROSTAGLANDINS,
analysis/ RATS/ SKIN, analysis

Assay of pregnanediol and pregnanetriol in low-titre urines by gas chromatography. Calseyde JF van de, et al. *Clin Chim Acta* 27:139-43, Jan 70
ACETATES/ CHROMATOGRAPHY, GAS/
COLORIMETRY/ COMPARATIVE STUDY/
FEMALE/ HUMAN/ METHODS/ PREGNANCY/
*PREGNANEDIOL, urine/ *PREGNANETRIOL,
urine/ SILICON/ TIME FACTORS

A simple method for the extraction of steroids from urine. Shackleton CH, et al.
Clin Chim Acta 27:354-6, Feb 70
ADULT/ ANDROSTANES/
*CHROMATOGRAPHY/ CHROMATOGRAPHY,
GAS/ CHROMATOGRAPHY, ION EXCHANGE/
HUMAN/ INFANT/ METHODS/ *STERIODS,
isolation & purification/ STEROIDS, urine/
TRITIUM

Separation and determination of steroids in oil solution. IV. Glc analysis of anabolic, androgenic, estrogenic and progestational steroids. Cavina G, et al. *J Chromatogr* 47:186-94, 4 Mar 70
*ANABOLIC STEROIDS, analysis/
*ANDROGENS, analysis/ CHOLESTANES,
analysis/ CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, THIN LAYER/ ESTERS,
analysis/ ESTRADIOL, analysis/ *ESTROGENS,
analysis/ ESTRONE, analysis/ METHODS/
NANDROLONE, analysis/ *OILS, analysis/
*PROGESTATIONAL HORMONES, analysis/
PROGESTERONE, analysis/ TESTOSTERONE,
analysis

The measurement of pregnanediol sulphate in amniotic fluid. Clarke A, et al. *J Endocr* 46:123-4, Jan 70
*AMNIOTIC FLUID, analysis/ CHEMISTRY,
ANALYTICAL/ CHROMATOGRAPHY/
CHROMATOGRAPHY, GAS/ FEMALE/
HUMAN/ METHODS/ PREGNANCY/
*PREGNANEDIOL, analysis

Gas chromatographic and mass spectrometric studies of oximes derived from 20-oxosteroids. Brooks CJ, et al. *Steroids* 15:283-301, Feb 70
*CHROMATOGRAPHY, GAS/ METHODS/
*OXIMES, analysis/ *PREGNANES, analysis/
*SPECTRUM ANALYSIS

CHROMATOGRAPHY, ION EXCHANGE

A simple method for the extraction of steroids from urine. Shackleton CH, et al.
Clin Chim Acta 27:354-6, Feb 70
ADULT/ ANDROSTANES/
*CHROMATOGRAPHY/ CHROMATOGRAPHY,
GAS/ CHROMATOGRAPHY, ION EXCHANGE/
HUMAN/ INFANT/ METHODS/ *STERIODS,
isolation & purification/ STEROIDS, urine/
TRITIUM

A radioimmunoassay for rhesus monkey luteinizing hormone (RhLH). Monroe SE, et al.
Endocrinology 86:1012-8, May 70
BIOLOGICAL ASSAY/ CASTRATION/
CHLORAMINES/ CHROMATOGRAPHY, ION
EXCHANGE/ FSH, analysis/ FSH, blood/ GEL
FILTRATION/ GONADOTROPINS, CHORIONIC,
blood/ GUINEA PIGS/ HYPOPHYSECTOMY/
IODINE ISOTOPES/ LH, analysis/ *LH, blood/
LH, standards/ METHODS/ *MONKEYS/
PITUITARY GLAND, analysis/ RABBITS/
*RADIOIMMUNOASSAY/ THYROTROPIN,
analysis

An improved procedure for separation of catecholamines from plasma. Valori C, et al.

Ital J Biochem 18:394-405, Sep-Oct 69
ALUMINUM/ BORIC ACIDS/
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*NOREPINEPHRINE, isolation & purification/
OXIDES/ PERCHLORIC ACIDS/ TIME
FACTORS

[Free nucleotides of erythrocytes in anemias in children. Results of 64 examinations] Orsini A, et al. *Arch Franc Pediat* 26:993-1002, 1969 (Fre)
*ADENINE NUCLEOTIDES, blood/
*ADENOSINE TRIPHOSPHATE, blood/
*ANEMIA, HEMOLYTIC, ACQUIRED, blood/
*ANEMIA, HEMOLYTIC, CONGENITAL, blood/
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*ERYTHROCYTES, analysis/
GLUCOSEPHOSPHATE DEHYDROGENASE
DEFICIENCY, blood/ HEMOGLOBIN C/
HEMOGLOBIN C DISEASE/
*HEMOGLOBINOPATHIES, blood/ HUMAN/
METHODS/ *NAD, blood/ *NADP, blood/
SPECTROPHOTOMETRY/ SPHEROCYTOSIS,
HEREDITARY, blood/ THALASSEMIA, blood

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N-acetylnormetanephrine and N-acetylmelanephrine in urine from patients with neuroblastoma. Borud O, et al. *Clin Chim Acta* 27:552-4, Mar 70
*CATECHOLAMINES, urine/
CHROMATOGRAPHY, PAPER/
CHROMATOGRAPHY, THIN LAYER/ HUMAN/
METHODS/ *NEUROBLASTOMA, urine/
NORMETANEPHRINE, urine/ STAINS AND
STAINING

Evaluation of angiotension II metabolism in sheep by radioimmunoassay. Cain MD, et al.
Endocrinology 86:955-64, May 70
ADRENALECTOMY/ ANGIOTENSIN,
biosynthesis/ *ANGIOTENSIN, blood/
ANGIOTENSIN, metabolism/ ANGIOTENSIN
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NEPHRECTOMY/ *RADIOIMMUNOASSAY/
*RENIN, blood/ RENIN, pharmacodynamics/
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FACTORS

Measurement of urinary free corticoids by competitive protein-binding radioassay in hypoadrenal states. Hsu TH, et al. *J Clin Endocr* 30:443-8, Apr 70
*ADRENAL CORTEX HORMONES, urine/
ADRENAL GLAND HYPOFUNCTION,
diagnosis/ *ADRENAL GLAND
HYPOFUNCTION, urine/ CARBON ISOTOPES/
CHEMISTRY, CLINICAL/
CHROMATOGRAPHY, PAPER/ CUSHING'S
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METABOLIC CLEARANCE RATE/ METHODS/
PITUITARY-ADRENAL FUNCTION TESTS/
*PROTEIN BINDING/ RADIOISOTOPE
DILUTION TECHNIC/ TRITIUM

Appraisal of the double isotope dilution techniques for the measurement of plasma aldosterone. Bayard F, et al. *J Lab Clin Med* 75:347-54, Feb 70
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PAPER/ HUMAN/ INDICATORS AND
REAGENTS/ METHODS/
OXIDATION-REDUCTION/ *RADIOISOTOPE
DILUTION TECHNIC/ RADIOMETRY/
TRITIUM

Plasma estradiol determined with a competitive protein binding method. Mayes D, et al.
Steroids 15:389-403, Mar 70

See also pages 254 - 255.

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AMMONIUM COMPOUNDS/
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GLOBULINS/ SULFATES/ TESTOSTERONE,
metabolism/ TRITIUM

Extraction of plasma insulin in radioimmunoassay for
removal of nonspecific inhibitor and of circulating
insulin antibody. Oneda A, et al.

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CHILD, PRESCHOOL/ CHROMATOGRAPHY,
PAPER/ DIABETES MELLITUS, blood/
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IMMUNOELECTROPHORESIS/ *INSULIN,
blood/ *INSULIN ANTIBODIES, analysis/
IODINE ISOTOPES/ MALE/ METHODS/
MIDDLE AGE/ RABBITS/
*RADIOIMMUNOASSAY/ SERUM ALBUMIN,
analysis/ SERUM GLOBULINS, analysis

CHROMATOGRAPHY, THIN LAYER

N-acetylnormetanephine and N-acetylmetanephine
in urine from patients with neuroblastoma. Borud O,
et al. Clin Chim Acta 27:552-4, Mar 70

*CATECHOLAMINES, urine/
CHROMATOGRAPHY, PAPER/
CHROMATOGRAPHY, THIN LAYER/ HUMAN/
METHODS/ *NEUROBLASTOMA, urine/
NORMETANEPHRINE, urine/ STAINS AND
STAINING

Separation and determination of steroids in oil
solution. IV. Glc analysis of anabolic, androgenic,
estrogenic and progestational steroids. Cavina G, et al.
J Chromatogr 47:186-94, 4 Mar 70

*ANABOLIC STEROIDS, analysis/
*ANDROGENS, analysis/ CHOLESTANES,
analysis/ CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, THIN LAYER/ ESTERS,
analysis/ ESTRADIOL, analysis/ *ESTROGENS,
analysis/ ESTRONE, analysis/ METHODS/
NANDROLONE, analysis/ *OILS, analysis/
*PROGESTATIONAL HORMONES, analysis/
PROGESTERONE, analysis/ TESTOSTERONE,
analysis

Plasma estradiol determined with a competitive
protein binding method. Mayes D, et al.
Steroids 15:389-403, Mar 70

AMMONIUM COMPOUNDS/
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*ESTRADIOL, blood/ FEMALE/ HUMAN/
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ALBUMIN, BOVINE, metabolism/ SERUM
GLOBULINS/ SULFATES/ TESTOSTERONE,
metabolism/ TRITIUM

Identification of 11-beta,17-alpha-dihydroxy-3,
20-dioxo-4-pregnene-21-al,1,2-3H
(21-dehydrocortisol-1, 2-3H) and
11-beta-hydroxy-4-androstene-3, 17-dione-1, 2-3H as
contaminants in preparations of cortisol. Monder C, et
al. Steroids 15:1-11, Jan 70

*ANDROSTANES, isolation & purification/
CHROMATOGRAPHY, THIN LAYER/
CRYSTALLIZATION/ *DRUG
ADULTERATION/ *HYDROCORTISONE/
HYDROXYSTEROID DEHYDROGENASE,
isolation & purification/ HYDROXYSTEROID
DEHYDROGENASE, metabolism/ METHODS/
*PREGNANES, isolation & purification/
TRITIUM

[Rapid determination of plasma estrone, estradiol (17
beta) and estriol] Castanier M, et al.
C R Acad Sci [D] (Paris) 270:843-6, 9 Feb 70 (Fre)
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THIN LAYER/ *ESTRADIOL, blood/
*ESTRIOL, blood/ *ESTRONE, blood/
METHODS/ SULFONIC ACIDS/ TRITIUM

[Fractionation of urinary corticosteroids by thin layer
chromatography and direct photometric estimation of
the chromatograms] Abraham R, et al.
Clin Chim Acta 27:395-400, Mar 70 (Ger)

*ADRENAL CORTEX HORMONES, urine/
*CHROMATOGRAPHY, THIN LAYER/
CORTICOSTERONE, urine/ CORTISONE,
urine/ ENGLISH ABSTRACT/
*FLUOROMETRY/ HUMAN/
HYDROCORTISONE, urine/ METHODS/
PREGNANES, urine/ STAINS AND
STAINING/ TETRAZOLIUM SALTS

[2-dimensional chromatography of a corticosteroid
mixture on thin layer of KSK silica-gel] Volkova VI, et
al. Vop Med Khim 16:101-3, Jan-Feb 70 (Rus)

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ADRENAL CORTEX HORMONES, urine/
*CHROMATOGRAPHY, THIN LAYER/ DRUG
STABILITY/ ENGLISH ABSTRACT/ GELS/
GLUCOCORTICOIDS, analysis/ HUMAN/
METHODS/ MINERALOCORTICOIDS, analysis/
SILICA

INSTRUMENTATION

Quantitation of plasma testosterone by improved
competitive protein-binding technique. Demetriou
JA, et al. Clin Chem 16:111-7, Feb 70

ADOLESCENCE/ ADULT/ *BLOOD
PROTEINS/ CELLULOSE/
CHROMATOGRAPHY, THIN LAYER,
instrumentation/ COMPARATIVE STUDY/
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*TESTOSTERONE, blood/ TRITIUM/
ULTRAVIOLET RAYS

COLORIMETRY

New biochemical micro-method for the determination
of prolactin in rat adenohypophysis. Kurcz M, et al.
Acta Biochim Biophys Acad Sci Hung 4:287-95, 1969
ANIMAL EXPERIMENTS/ COLORIMETRY/
ELECTROPHORESIS, DISK/ GELS/ METHODS/
MICROCHEMISTRY/ *PITUITARY GLAND,
analysis/ *PROLACTIN, analysis/ RATS

Assay of pregnanediol and pregnanetriol in low-titre
urines by gas chromatography. Calseyde JF van de, et
al. Clin Chim Acta 27:139-43, Jan 70

ACETATES/ CHROMATOGRAPHY, GAS/
COLORIMETRY/ COMPARATIVE STUDY/
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*PREGNANEDIOL, urine/ *PREGNANETRIOL,
urine/ SILICON/ TIME FACTORS

Diurnal patterns of blood glucose, serum free fatty
acids, insulin, glucagon and growth hormone in
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analysis/ CHILD/ *CIRCADIAN RHYTHM/
COLORIMETRY/ *DIABETES MELLITUS,
JUVENILE, blood/ *FATTY ACIDS,
NONESTERIFIED, blood/ *GLUCAGON, blood/
HUMAN/ *INSULIN, blood/ MALE/
METHODS/ RADIOIMMUNOASSAY/
*SOMATOTROPIN, blood

Automated determination of urinary corticosteroids.
Sparagana M, et al. Steroids 15:353-71, Mar 70

*ADRENAL CORTEX HORMONES, urine/
*AUTOANALYSIS/ CIRCADIAN RHYTHM/
COLORIMETRY/ COMPUTERS/ CORTISONE,
urine/ DEHYDROEPIANDROSTERONE, urine/
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Quantitation of plasma testosterone by improved
competitive protein-binding technique. Demetriou
JA, et al. Clin Chem 16:111-7, Feb 70

See also pages 254 - 255.

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ADOLESCENCE/ ADULT/ *BLOOD
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BINDING/ SEX FACTORS/ SILICA/
*TESTOSTERONE, blood/ TRITIUM/
ULTRAVIOLET RAYS

Comparison of improved fluorometric methods used to
quantitate plasma catecholamines. Manger WM, et al.
Clin Chem 15:1101-23, Dec 69

ANIMAL EXPERIMENTS/ COLD/
COMPARATIVE STUDY/ DOGS/
*EPINEPHRINE, blood/ ERYTHROCYTES/
ETHYLENEDIAMINES/ *FLUOROMETRY/
INDOLES/ METHODS/ *NOREPINEPHRINE,
blood/ THIOSULFATES

Assay of pregnanediol and pregnanetriol in low-titre
urines by gas chromatography. Calseyde JF van de, et
al. *Clin Chim Acta* 27:139-43, Jan 70

ACETATES/ CHROMATOGRAPHY, GAS/
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FEMALE/ HUMAN/ METHODS/ PREGNANCY/
*PREGNANEDIOL, urine/ *PREGNANETRIOL,
urine/ SILICON/ TIME FACTORS

Comparison of fluorometric method for urinary
cortisol with modified Porter-Silber method for
17-OHCS. Clark BR, et al.

Clin Chim Acta 27:364, Feb 70
COMPARATIVE STUDY/ *FLUOROMETRY/
HUMAN/ *HYDROCORTISONE, urine/
*17-HYDROXYCORTICOSTEROIDS, analysis/
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Measurement of plasma cortisol in children and adults:
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competitive protein-binding analysis and the
modified competitive protein-binding analysis.

Iturzaeta NF, et al. *J Clin Endocr* 30:185-9, Feb 70
ADOLESCENCE/ *ADRENOGENITAL
SYNDROME, blood/ ADULT/ ANEMIA,
HYPOCHROMIC, blood/ ASTHMA, blood/
*CARBON ISOTOPES, diagnostic use/ CHILD/
CHILD, PRESCHOOL/ CLINICAL RESEARCH/
COMPARATIVE STUDY/ DWARFISM, blood/
EPILEPSY, PETIT MAL, blood/ EXCHANGE
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blood/ HUMAN/ *HYDROCORTISONE, blood/
INFANT/ INFANT, NEWBORN/ LIVER
CIRRHOSIS, blood/ MALE/ METHODS/
*PROTEIN BINDING/ RICKETS, blood/
TRANSCORTIN/ *TRITIUM, diagnostic use/
UMBILICAL CORD, blood supply

Localization of hormones by autoradiography and other
histochemical techniques. A critical review. Stumpf
WE. *J Histochem Cytochem* 18:21-9, Jan 70 (76 ref.)

ANIMAL EXPERIMENTS/ CARBON
ISOTOPES/ COMPARATIVE STUDY/
FEMALE/ FLUORESCENCE/ FLUORESCENT
ANTIBODY TECHNIC/ FREEZE DRYING/
FREEZING/ *HISTOCYTOCHEMISTRY/
*HORMONES, analysis/ HYPOTHALAMUS,
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ISOTOPES/ METHODS/ MICROSCOPY,
FLUORESCENCE/ PITUITARY GLAND,
cytology/ *RADIOAUTOGRAPHY/ RATS/
REVIEW/ TRITIUM

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Autoradiographic method for quantitation of
deposition and distribution of radiocalcium in bone.

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metabolism/ *BONE AND BONES, radiography/
BONE DEVELOPMENT/ *CALCIUM, analysis/
CALCIUM, metabolism/ CALCIUM ISOTOPES/
COMPUTERS, DIGITAL/ DENSITOMETRY/
DOGS/ FEMUR, radiography/ METHODS/
MICRORADIOGRAPHY/ MINERALS, analysis/
*RADIOAUTOGRAPHY/ RIBS, radiography/
SPECTRUM ANALYSIS/ ULNA, radiography

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Thyroxine-binding globulin values as a measure of
placental adequacy. Nicoloff JT, et al.

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ABORTION, THREATENED, diagnosis/ COLD/
DIABETES MELLITUS, blood/
ELECTROPHORESIS/ ESTRADIOL, urine/
*ESTROGENS, metabolism/ FEMALE/
GESTATIONAL AGE/ HUMAN/ METHODS/
*PLACENTA, physiology/ PREGNANCY/
PREGNANCY IN DIABETES, blood/ RESINS,
metabolism/ *THYROXINE-BINDING PROTEIN,
blood/ TIME FACTORS/
*TRIiodOTHYRONINE, metabolism

ELECTROPHORESIS, DISK

New biochemical micro-method for the determination
of prolactin in rat adenohypophysis. Kurcz M, et al.

Acta Biochim Biophys Acad Sci Hung 4:287-95, 1969
ANIMAL EXPERIMENTS/ COLORIMETRY/
ELECTROPHORESIS, DISK/ GELS/ METHODS/
MICROCHEMISTRY/ *PITUITARY GLAND,
analysis/ *PROLACTIN, analysis/ RATS

Chemical quantification of melanophore stimulating
substances using polyacrylamide gel disc
electrophoresis. Preslock JP, et al.

Life Sci 9:215-28, 22 Feb 70
ACRYLATES/ ADRENAL GLANDS,
metabolism/ ANIMAL EXPERIMENTS/
BIOLOGICAL ASSAY/ DARK ADAPTATION/
*ELECTROPHORESIS, DISK/ FROGS/ GELS/
IN VITRO/ LIGHT/ MALE/ METHODS/ *MSH,
analysis/ PITUITARY GLAND, analysis/
POLYMERS/ SKIN, metabolism

FILTRATION

[Modification of the Hales-Randle procedure for the
radioimmunoassay of insulin] Quabbe HJ.

Diabetologia 5:101-7, Apr 69 (Ger)
ANIMAL EXPERIMENTS/ CENTRIFUGATION/
DOGS/ ENGLISH ABSTRACT/ FILTRATION/
*INSULIN, blood/ METHODS/
*RADIOIMMUNOASSAY

FLUORESCENCE

Improved procedure for formation of epinephrine and
norepinephrine fluorophors by the trihydroxyindole
reaction. Valori C, et al.

Anal Biochem 33:158-67, Jan 70
ADRENOCROME/ ANTIOXIDANTS/
CHEMISTRY/ COPPER/ DIMERCAPROL/
DRUG STABILITY/ *EPINEPHRINE, analysis/
FLUORESCENCE/ FLUOROMETRY/
FORMALDEHYDE/ *INDOLES/ METHODS/
*NOREPINEPHRINE, analysis

A new microscopic method for the visualization of blue
formaldehyde-induced catecholamine fluorescence.

Ploem JS. *Arch Int Pharmacodyn* 182:421-4, Dec 69
ANIMAL EXPERIMENTS/ AXONS, analysis/
*CATECHOLAMINES, analysis/
FLUORESCENCE/ FORMALDEHYDE/
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The fluorimetric estimation of cortisol in human
plasma. Purves HD, et al.

Aust J Exp Biol Med Sci 47:589-99, Oct 69
ALCOHOLS/ CHLORIDES, pharmacodynamics/
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FLUOROMETRY, instrumentation/ FREEZING/
*HYDROCORTISONE, blood/
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INDICATORS AND REAGENTS/ METHODS/
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FACTORS

Localization of hormones by autoradiography and other
histochemical techniques. A critical review. Stumpf

WE. *J Histochem Cytochem* 18:21-9, Jan 70 (76 ref.)
ANIMAL EXPERIMENTS/ CARBON
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See also pages 254 - 255.

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*HORMONES, analysis/ HYPOTHALAMUS,
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ISOTOPES/ METHODS/ MICROSCOPY,
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cytology/ *RADIOAUTOGRAPHY/ RATS/
REVIEW/ TRITIUM

Interference in the measurement of plasma
11-hydroxycorticosteroids caused by spironolactone
administration. Wood LC, et al.

New Eng J Med 282:650-2, 19 Mar 70

ADDISON'S DISEASE, blood/ *ADRENAL
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FALSE POSITIVE REACTIONS/
FLUORESCENCE/ HUMAN/
HYDROCORTISONE, blood/ IN VITRO/
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FUNCTION TESTS/ SPIRONOLACTONE,
administration & dosage/ *SPIRONOLACTONE,
pharmacodynamics/ SULFURIC ACIDS

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Localization of hormones by autoradiography and other
histochemical techniques. A critical review. Stumpf
WE. J Histochem Cytochem 18:21-9, Jan 70 (76 ref.)

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*HORMONES, analysis/ HYPOTHALAMUS,
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FLUOROMETRY

Improved procedure for formation of epinephrine and
norepinephrine fluorophors by the trihydroxyindole
reaction. Valori C, et al.

Anal Biochem 33:158-67, Jan 70

ADRENOCROME/ ANTIOXIDANTS/
CHEMISTRY/ COPPER/ DIMERCAPROL/
DRUG STABILITY/ *EPINEPHRINE, analysis/
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FORMALDEHYDE/ INDOLES/ METHODS/
*NOREPINEPHRINE, analysis

The fluorimetric estimation of cortisol in human
plasma. Purves HD, et al.

Aust J Exp Biol Med Sci 47:589-99, Oct 69

ALCOHOLS/ CHLORIDES, pharmacodynamics/
FLUORESCENCE/ *FLUOROMETRY/
FLUOROMETRY, instrumentation/ FREEZING/
*HYDROCORTISONE, blood/
HYDROCORTISONE, isolation & purification/
INDICATOR DILUTION TECHNIQS/
INDICATORS AND REAGENTS/ METHODS/
SULFURIC ACIDS/ TEMPERATURE/ TIME
FACTORS

A mechanized system for the determination of ATP +
ADP, 2,3-diphosphoglycerate, glucose
1,6-diphosphate and lactate in small amounts of blood
cells. Loos JA, et al.

Biochim Biophys Acta 201:185-95, 24 Feb 70

*ADENINE NUCLEOTIDES, blood/
ADENOSINE TRIPHOSPHATE, blood/
AUTOANALYSIS/ *ERYTHROCYTES, analysis/
FLUOROMETRY/ *GLYCEROPHOSPHATES,
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HUMAN/ INDICATORS AND REAGENTS/
*LACTATES, blood/ LYMPHOCYTES, analysis/
METALS/ METHODS

A method for the estimation of the catecholamines and
their metabolites in brain tissue. Crawford TB, et al.

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ANIMAL EXPERIMENTS/ *BRAIN
CHEMISTRY/ *CATECHOLAMINES, analysis/
CATECHOLAMINES, metabolism/
CHROMATOGRAPHY/ DOPA, analysis/
DOPAMINE, analysis/ EPINEPHRINE, analysis/
FLUOROMETRY/ METHODS/

NOREPINEPHRINE, analysis/ RATS/
TYRAMINE, analysis

Comparison of improved fluorometric methods used to
quantitate plasma catecholamines. Manger WM, et al.
Clin Chem 15:1101-23, Dec 69

ANIMAL EXPERIMENTS/ COLD/
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*EPINEPHRINE, blood/ ERYTHROCYTES/
ETHYLENEDIAMINES/ *FLUOROMETRY/
INDOLES/ METHODS/ *NOREPINEPHRINE,
blood/ THIOSULFATES

Comparison of fluorometric method for urinary
cortisol with modified Porter-Silber method for
17-OHCS. Clark BR, et al.

Clin Chim Acta 27:364, Feb 70

COMPARATIVE STUDY/ *FLUOROMETRY/
HUMAN/ *HYDROCORTISONE, urine/
*17-HYDROXYCORTICOSTEROIDS, analysis/
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Simultaneous determination of cortisol and
corticosterone in urine. Martin MM, et al.
Clin Chim Acta 27:379-83, Mar 70

ADRENAL GLAND DISEASES, urine/
ADRENAL GLANDS, drug effects/ CHILD/
CIRCADIAN RHYTHM/ *CORTICOSTERONE,
urine/ CORTICOTROPIN, pharmacodynamics/
FEMALE/ FLUOROMETRY/ HUMAN/
*HYDROCORTISONE, urine/
HYDROXYLAMINES/ METHODS/
METYRAPONE, pharmacodynamics/
PREGNANCY

[Determination by competition of plasma cortisol.
Modification of Murphy's method] Leclercq R, et al.
Rev Franc Etud Clin Biol 14:815-9, Oct 69 (Fre)

ADSORPTION/ ADULT/ CORTICOSTERONE,
blood/ *CORTISONE, blood/
DEXAMETHASONE, diagnostic use/ ENGLISH
ABSTRACT/ FEMALE/ FLUOROMETRY/
HUMAN/ MALE/ METHODS/ PROBABILITY/
PROGESTERONE, blood/ PROTEIN BINDING/
*TRANSCORTIN/ TRITIUM

[Fractionation of urinary corticosteroids by thin layer
chromatography and direct photometric estimation of
the chromatograms] Abraham R, et al.

Clin Chim Acta 27:395-400, Mar 70 (Ger)

*ADRENAL CORTEX HORMONES, urine/
*CHROMATOGRAPHY, THIN LAYER/
CORTICOSTERONE, urine/ CORTISONE,
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*FLUOROMETRY/ HUMAN/
HYDROCORTISONE, urine/ METHODS/
PREGNANES, urine/ STAINS AND
STAINING/ TETRAZOLIUM SALTS

[Demonstration of adrenaline and noradrenaline in
small blood volumes] Endel D, et al.

Z Klin Chem 8:77-9, Jan 70 (Ger)

BLOOD CHEMICAL ANALYSIS,
instrumentation/ ENGLISH ABSTRACT/
*EPINEPHRINE, blood/ FLUOROMETRY/
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INSTRUMENTATION

The fluorimetric estimation of cortisol in human
plasma. Purves HD, et al.

Aust J Exp Biol Med Sci 47:589-99, Oct 69

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FLUORESCENCE/ *FLUOROMETRY/
FLUOROMETRY, instrumentation/ FREEZING/
*HYDROCORTISONE, blood/
HYDROCORTISONE, isolation & purification/
INDICATOR DILUTION TECHNIQS/
INDICATORS AND REAGENTS/ METHODS/
SULFURIC ACIDS/ TEMPERATURE/ TIME
FACTORS

GEL FILTRATION

A radioimmunoassay for rhesus monkey luteinizing
hormone (RhLH). Monroe SE, et al.

Endocrinology 86:1012-8, May 70

BIOLOGICAL ASSAY/ CASTRATION/
CHLORAMINES/ CHROMATOGRAPHY, ION
EXCHANGE/ FSH, analysis/ FSH, blood/ GEL

METHOD SECTION

FILTRATION/ GONADOTROPINS, CHORIONIC, blood/ GUINEA PIGS/ HYPOPHYSECTOMY/ IODINE ISOTOPES/ LH, analysis/ *LH, blood/ LH, standards/ METHODS/ *MONKEYS/ PITUITARY GLAND, analysis/ RABBITS/ *RADIOIMMUNOASSAY/ THYROTROPIN, analysis

Resin uptake test and iodide impurity of 131-I-labeled thyroid hormones. Clark F, et al.

J Nucl Med 11:165-72, Apr 70

ANALYSIS OF VARIANCE/ DRUG ADULTERATION/ GEL FILTRATION/ IODIDES/ *IODINE ISOTOPES/ METHODS/ RESINS/ *THYROXINE, isolation & purification/ *TRIODOXYRONE, isolation & purification

HISTOCYTOCHEMISTRY

A new microscopic method for the visualization of blue formaldehyde-induced catecholamine fluorescence. Ploem JS. Arch Int Pharmacodyn 182:421-4, Dec 69

ANIMAL EXPERIMENTS/ AXONS, analysis/ *CATECHOLAMINES, analysis/ FLUORESCENCE/ FORMALDEHYDE/ HISTOCYTOCHEMISTRY/ MESENTERY, analysis/ METHODS/ *MICROSCOPY/ RATS/ SEROTONIN, analysis/ ULTRAVIOLET RAYS

Localization of insulin in mouse tissues using fluorescence microscopy and light microscope and high resolution autoradiography. Magli V, et al. Diabetologia 5:67-78, Apr 69

ADIPOSE TISSUE, metabolism/ ANIMAL EXPERIMENTS/ FASTING/ HISTOCYTOCHEMISTRY/ INJECTIONS, INTRAVENOUS/ *INSULIN, analysis/ IODINE ISOTOPES/ *KIDNEY, metabolism/ KIDNEY TUBULES, metabolism/ LIVER, metabolism/ LUNG, metabolism/ MALE/ METHODS/ MICE/ MICROSCOPY, FLUORESCENCE/ MUSCLES, metabolism/ MYOCARDIUM, metabolism/ PROSTATE, metabolism/ *RADIOAUTOGRAPHY/ SEMINAL VESICLES, metabolism/ TESTIS, metabolism

20th annual meeting of the histochemical society, Atlantic City, April 12-13, 1969. Symposium on hormone localization in cells and tissues. Hunter RL.

J Histochem Cytochem 18:1-8, Jan 70
ANIMAL EXPERIMENTS/ ANTIBODIES/ ANTIGENS/ CORTICOTROPIN, analysis/ FEMALE/ HISTOCYTOCHEMISTRY/ HUMAN/ IMMUNOCHEMISTRY/ MALE/ METHODS/ PEROXIDASES/ *PITUITARY GLAND, cytology/ PITUITARY GLAND, physiology/ *PITUITARY HORMONES, ANTERIOR, analysis/ PROLACTIN, analysis/ RABBITS/ RATS/ SOMATOTROPIN, analysis/ STAINS AND STAINING/ STATISTICS

Classifications of anterior pituitary cell types with immunoenzyme histochemistry. Nakane PK.

J Histochem Cytochem 18:9-20, Jan 70
ANIMAL EXPERIMENTS/ ANTIBODIES/ ANTIGENS/ CORTICOTROPIN, analysis/ CROSS REACTIONS/ FSH, analysis/ HISTOCYTOCHEMISTRY/ HUMAN/ IMMUNOCHEMISTRY/ LH, analysis/ MALE/ METHODS/ MICROSCOPY, ELECTRON/ PEROXIDASES/ *PITUITARY GLAND, cytology/ PITUITARY GLAND, physiology/ *PITUITARY HORMONES, ANTERIOR, analysis/ PROLACTIN, analysis/ RABBITS/ RATS/ SHEEP/ SOMATOTROPIN, analysis/ STAINS AND STAINING/ SWINE/ THYROTROPIN, analysis

Reactive groups in hormone cytochemistry. Quay WB.

J Histochem Cytochem 18:30-7, Jan 70 (104 ref.)
ANIMAL EXPERIMENTS/ CATECHOLAMINES, analysis/ ENZYMES/ FLUORESCENT DYES/ *HISTOCYTOCHEMISTRY/ *HORMONES, analysis/ HUMAN/ IMMUNOCHEMISTRY/ INDICATORS AND REAGENTS/ INSULIN, analysis/ JUXTAGLOMERULAR APPARATUS, cytology/ MALE/ METHODS/ PANCREAS, cytology/ PROTEINS, analysis/ RENIN, analysis/ REVIEW/ STAINS AND STAINING/

STEROIDS, analysis/ THYROID HORMONES, analysis/ TRYPTAMINES, analysis

Localization of hormones by autoradiography and other histochemical techniques. A critical review. Stumpf WE. J Histochem Cytochem 18:21-9, Jan 70 (76 ref.)

ANIMAL EXPERIMENTS/ CARBON ISOTOPES/ COMPARATIVE STUDY/ FEMALE/ FLUORESCENCE/ FLUORESCENT ANTIBODY TECHNIC/ FREEZE DRYING/ FREEZING/ *HISTOCYTOCHEMISTRY/ *HORMONES, analysis/ HYPOTHALAMUS, cytology/ IMMUNOCHEMISTRY/ IODINE ISOTOPES/ METHODS/ MICROSCOPY, FLUORESCENCE/ PITUITARY GLAND, cytology/ *RADIOAUTOGRAPHY/ RATS/ REVIEW/ TRITIUM

IMMUNOASSAY

Analysis of stable iodinated insulin using neutron activation techniques. Cardarelli JA, et al. Phys Med Biol 15:157, Jan 70

*ACTIVATION ANALYSIS/ HUMAN/ IMMUNOASSAY/ *INSULIN, analysis/ INSULIN, metabolism/ *IODINE ISOTOPES, analysis/ METHODS

IMMUNOCHEMISTRY

20th annual meeting of the histochemical society, Atlantic City, April 12-13, 1969. Symposium on hormone localization in cells and tissues. Hunter RL.

J Histochem Cytochem 18:1-8, Jan 70
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Classifications of anterior pituitary cell types with immunoenzyme histochemistry. Nakane PK.

J Histochem Cytochem 18:9-20, Jan 70
ANIMAL EXPERIMENTS/ ANTIBODIES/ ANTIGENS/ CORTICOTROPIN, analysis/ CROSS REACTIONS/ FSH, analysis/ HISTOCYTOCHEMISTRY/ HUMAN/ IMMUNOCHEMISTRY/ LH, analysis/ MALE/ METHODS/ MICROSCOPY, ELECTRON/ PEROXIDASES/ *PITUITARY GLAND, cytology/ PITUITARY GLAND, physiology/ *PITUITARY HORMONES, ANTERIOR, analysis/ PROLACTIN, analysis/ RABBITS/ RATS/ SHEEP/ SOMATOTROPIN, analysis/ STAINS AND STAINING/ SWINE/ THYROTROPIN, analysis

Reactive groups in hormone cytochemistry. Quay WB.

J Histochem Cytochem 18:30-7, Jan 70 (104 ref.)
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Localization of hormones by autoradiography and other histochemical techniques. A critical review. Stumpf WE. J Histochem Cytochem 18:21-9, Jan 70 (76 ref.)

ANIMAL EXPERIMENTS/ CARBON ISOTOPES/ COMPARATIVE STUDY/ FEMALE/ FLUORESCENCE/ FLUORESCENT ANTIBODY TECHNIC/ FREEZE DRYING/ FREEZING/ *HISTOCYTOCHEMISTRY/ *HORMONES, analysis/ HYPOTHALAMUS, cytology/ IMMUNOCHEMISTRY/ IODINE ISOTOPES/ METHODS/ MICROSCOPY, FLUORESCENCE/ PITUITARY GLAND, cytology/ *RADIOAUTOGRAPHY/ RATS/ REVIEW/ TRITIUM

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IMMUNOELECTROPHORESIS

Extraction of plasma insulin in radioimmunoassay for removal of nonspecific inhibitor and of circulating insulin antibody. Oneda A, et al.

Tohoku J Exp Med 100:75-84, Jan 70
ACETONE/ ADOLESCENCE/ ADULT/
ALCOHOL, ETHYL/ BLOOD SUGAR, analysis/
CHILD, PRESCHOOL/ CHROMATOGRAPHY,
PAPER/ DIABETES MELLITUS, blood/
DIABETES MELLITUS, immunology/ FEMALE/
HUMAN/ IMMUNE SERUMS/
IMMUNOELECTROPHORESIS/ *INSULIN,
blood/ *INSULIN ANTIBODIES, analysis/
IODINE ISOTOPES/ MALE/ METHODS/
MIDDLE AGE/ RABBITS/
*RADIOIMMUNOASSAY/ SERUM ALBUMIN,
analysis/ SERUM GLOBULINS, analysis

INDICATOR DILUTION TECHNIQS

The fluorimetric estimation of cortisol in human plasma. Purves HD, et al.

Aust J Exp Biol Med Sci 47:589-99, Oct 69
ALCOHOLS/ CHLORIDES, pharmacodynamics/
FLUORESCENCE/ *FLUOROMETRY/
FLUOROMETRY, instrumentation/ FREEZING/
*HYDROCORTISONE, blood/
HYDROCORTISONE, isolation & purification/
INDICATOR DILUTION TECHNIQS/
INDICATORS AND REAGENTS/ METHODS/
SULFURIC ACIDS/ TEMPERATURE/ TIME
FACTORS

ION EXCHANGE RESINS

METABOLISM

The "free thyroxine index". Smyth PP, et al.
Irish J Med Sci 8:515-21, Nov 69

FEMALE/ HUMAN/ IODINE ISOTOPES,
DIAGNOSTIC/ ION EXCHANGE RESINS,
metabolism/ METHODS/ NEPHROSIS, blood/
PREGNANCY/ PROTEIN-BOUND IODINE
TEST/ THYROID DISEASES, blood/
*THYROID GLAND FUNCTION TESTS/
*THYROXINE, blood

MICROCHEMISTRY

New biochemical micro-method for the determination of prolactin in rat adenohypophysis. Kurcz M, et al.

Acta Biochim Biophys Acad Sci Hung 4:287-95, 1969
ANIMAL EXPERIMENTS/ COLORIMETRY/
ELECTROPHORESIS, DISK/ GELS/ METHODS/
MICROCHEMISTRY/ *PITUITARY GLAND,
analysis/ *PROLACTIN, analysis/ RATS

POTENTIOMETRY

[Separation of tetrachlorfluorescein derivatives iodinated to different degrees. I. Adsorption chromatography on aluminum oxide] Santora J, et al.
Cesk Farm 18:451-6, Nov 69 (Cze)

ALKALIES, analysis/ *ALUMINUM/
*CHROMATOGRAPHY/ ENGLISH ABSTRACT/
*FLUORESCENCE, analysis/ *IODINE, analysis/
METHODS/ *OXIDES/ POTENTIOMETRY

PROTEIN BINDING

Quantitation of plasma testosterone by improved competitive protein-binding technique. Demetriou JA, et al. Clin Chem 16:111-7, Feb 70

ADOLESCENCE/ ADULT/ *BLOOD
PROTEINS/ CELLULOSE/
CHROMATOGRAPHY, THIN LAYER,
instrumentation/ COMPARATIVE STUDY/
ENDOCRINE DISEASES, blood/ FEMALE/
HIRSUTISM, blood/ HUMAN/ KLINEFELTER'S
SYNDROME, blood/ MALE/ METHODS/
MIDDLE AGE/ PREGNANCY/ PROTEIN
BINDING/ SEX FACTORS/ SILICA/
*TESTOSTERONE, blood/ TRITIUM/
ULTRAVIOLET RAYS

Measurement of urinary free corticoids by competitive protein-binding radioassay in hypoadrenal states. Hsu TH, et al. J Clin Endocr 30:443-8, Apr 70
*ADRENAL CORTEX HORMONES, urine/

ADRENAL GLAND HYPOFUNCTION,
diagnosis/ *ADRENAL GLAND
HYPOFUNCTION, urine/ CARBON ISOTOPES/
CHEMISTRY, CLINICAL/
CHROMATOGRAPHY, PAPER/ CUSHING'S
SYNDROME, diagnosis/ DEXAMETHASONE,
diagnostic use/ HUMAN/ HYDROCARBONS,
HALOGENATED/ HYDROCORTISONE,
metabolism/ *HYDROCORTISONE, urine/
METABOLIC CLEARANCE RATE/ METHODS/
PITUITARY-ADRENAL FUNCTION TESTS/
*PROTEIN BINDING/ RADIOISOTOPE
DILUTION TECHNIC/ TRITIUM

Measurement of plasma cortisol in children and adults: a comparison of the double isotope derivative assay, competitive protein-binding analysis and the modified competitive protein-binding analysis.

Iturzaeta NF, et al. J Clin Endocr 30:185-9, Feb 70
ADOLESCENCE/ *ADRENOGENITAL
SYNDROME, blood/ ADULT/ ANEMIA,
HYPOCHROMIC, blood/ ASTHMA, blood/
*CARBON ISOTOPES, diagnostic use/ CHILD/
CHILD, PRESCHOOL/ CLINICAL RESEARCH/
COMPARATIVE STUDY/ DWARFISM, blood/
EPILEPSY, PETIT MAL, blood/ EXCHANGE
TRANSFUSION/ FEMALE/ HEAD INJURIES,
blood/ HUMAN/ *HYDROCORTISONE, blood/
INFANT/ INFANT, NEWBORN/ LIVER
CIRRHOSIS, blood/ MALE/ METHODS/
*PROTEIN BINDING/ RICKETS, blood/
TRANSCORTIN/ *TRITIUM, diagnostic use/
UMBILICAL CORD, blood supply

Standardization of the chloramine-T method of protein iodination. Hunter R.

Proc Soc Exp Biol Med 133:989-92, Mar 70
ANTIGENS/ CATTLE/ *CHLORAMINES/
ELECTROCHEMISTRY/ FERRITIN/
FLAGELLA/ GAMMA GLOBULIN/ *IODINE,
standards/ IODINE ISOTOPES/ METHODS/
MYOGLOBIN/ OVALBUMIN/ POTASSIUM
IODIDE/ *PROTEIN BINDING/ *PROTEINS/
PROTEUS/ RABBITS/ SALMONELLA
TYPHOSA/ SERUM ALBUMIN, BOVINE/
VIRAL PROTEINS

Plasma estradiol determined with a competitive protein binding method. Mayes D, et al.
Steroids 15:389-403, Mar 70

AMMONIUM COMPOUNDS/
CHROMATOGRAPHY, PAPER/
CHROMATOGRAPHY, THIN LAYER/
*ESTRADIOL, blood/ FEMALE/ HUMAN/
MALE/ MENSTRUATION/ METHODS/
PREGNANCY/ *PROTEIN BINDING/ SERUM
ALBUMIN, BOVINE, metabolism/ SERUM
GLOBULINS/ SULFATES/ TESTOSTERONE,
metabolism/ TRITIUM

Radioimmunoassay of plasma estrone and estradiol.

Mikhail G, et al. Steroids 15:333-52, Mar 70
ANIMAL EXPERIMENTS/ ANTIBODY
FORMATION/ ANTIGEN-ANTIBODY
REACTIONS/ CATTLE/ CENTRIFUGATION/
CHROMATOGRAPHY/ COLD/ *ESTRADIOL,
blood/ ESTRADIOL, pharmacodynamics/
*ESTRONE, blood/ ESTRONE,
pharmacodynamics/ FEMALE/ FSH, blood/
GONADOTROPINS, blood/ HYDROGEN-ION
CONCENTRATION/ LH, blood/
MENSTRUATION/ METHODS/ PROTEIN
BINDING/ *RADIOIMMUNOASSAY/ SERUM
ALBUMIN, BOVINE/ SHEEP/
TEMPERATURE/ TIME FACTORS/ TRITIUM

[Determination by competition of plasma cortisol. Modification of Murphy's method] Leclercq R, et al.
Rev Franc Etud Clin Biol 14:815-9, Oct 69 (Fre)
ADSORPTION/ ADULT/ CORTICOSTERONE,
blood/ *CORTISONE, blood/
DEXAMETHASONE, diagnostic use/ ENGLISH
ABSTRACT/ FEMALE/ FLUOROMETRY/
HUMAN/ MALE/ METHODS/ PROBABILITY/
PROGESTERONE, blood/ PROTEIN BINDING/
*TRANSCORTIN/ TRITIUM

[Method (competitive protein-binding) for determination of plasma-testosterone level; study of testosterone metabolism in men over 60 years old]

See also pages 254 - 255.

METHOD SECTION

Frick J. Urol Int 24:481-501, 1969 (Ger)
ADULT/ AGED/ *AGING/ ENGLISH
ABSTRACT/ GONADOTROPINS,
pharmacodynamics/ HUMAN/ MALE/
METHODS/ MIDDLE AGE/ *PROTEIN
BINDING/ TESTIS, anatomy & histology/
*TESTOSTERONE, blood/ TESTOSTERONE,
metabolism

[Determination of serum protein-bound iodine using an auto analyzer] Ido H, et al.

Jap J Clin Path 18:67-9, Jan 70 (Jap)
*AUTOANALYSIS/ *BLOOD PROTEINS,
analysis/ *IODINE, blood/ METHODS/
PROTEIN BINDING/ RESINS,
pharmacodynamics

RADIOAUTOGRAPHY

Localization of insulin in mouse tissues using fluorescence microscopy and light microscope and high resolution autoradiography. Maggi V, et al.
Diabetologia 5:67-78, Apr 69

ADIPOSE TISSUE, metabolism/ ANIMAL
EXPERIMENTS/ FASTING/
HISTOCYTOCHEMISTRY/ INJECTIONS,
INTRAVENOUS/ *INSULIN, analysis/ IODINE
ISOTOPES/ *KIDNEY, metabolism/ KIDNEY
TUBULES, metabolism/ LIVER, metabolism/
LUNG, metabolism/ MALE/ METHODS/ MICE/
MICROSCOPY, FLUORESCENCE/ MUSCLES,
metabolism/ MYOCARDIUM, metabolism/
PROSTATE, metabolism/
*RADIOAUTOGRAPHY/ SEMINAL VESICLES,
metabolism/ TESTIS, metabolism

Localization of hormones by autoradiography and other histochemical techniques. A critical review. Stumpf WE. J Histochem Cytochem 18:21-9, Jan 70 (76 ref.)

ANIMAL EXPERIMENTS/ CARBON
ISOTOPES/ COMPARATIVE STUDY/
FEMALE/ FLUORESCENCE/ FLUORESCENT
ANTIBODY TECHNIC/ FREEZE DRYING/
FREEZING/ *HISTOCYTOCHEMISTRY/
*HORMONES, analysis/ HYPOTHALAMUS,
cytology/ IMMUNOCHEMISTRY/ IODINE
ISOTOPES/ METHODS/ MICROSCOPY,
FLUORESCENCE/ PITUITARY GLAND,
cytology/ *RADIOAUTOGRAPHY/ RATS/
REVIEW/ TRITIUM

Autoradiographic method for quantitation of deposition and distribution of radiocalcium in bone.

Riggs BL Jr, et al. J Lab Clin Med 75:520-8, Mar 70
ANIMAL EXPERIMENTS/ BONE AND BONES,
metabolism/ *BONE AND BONES, radiography/
BONE DEVELOPMENT/ *CALCIUM, analysis/
CALCIUM, metabolism/ CALCIUM ISOTOPES/
COMPUTERS, DIGITAL/ DENSITOMETRY/
DOGS/ FEMUR, radiography/ METHODS/
MICROAUTOGRAPHY/ MINERALS, analysis/
*RADIOAUTOGRAPHY/ RIBS, radiography/
SPECTRUM ANALYSIS/ ULNA, radiography

RADIOIMMUNOASSAY

Antibody-coated tube method for radioimmunoassay of human growth hormone. Catt KJ, et al.
Clin Chim Acta 27:267-79, Feb 70

ACROMEGALY, blood/ ADULT/ AGED/
CONTRACEPTIVES, ORAL, pharmacodynamics/
DRUG STORAGE/ FEMALE/ *GAMMA
GLOBULIN/ GLUCOSE TOLERANCE TEST/
HORSES/ HUMAN/ HYDROGEN-ION
CONCENTRATION/ HYPOGLYCEMIA, blood/
HYPOGLYCEMIA, chemically induced/
IMMUNE SERUMS/ INSULIN/ IODINE
ISOTOPES/ MALE/ METHODS/ MIDDLE AGE/
PITUITARY GLAND, drug effects/
POLYSTYRENES/ RABBITS/
*RADIOIMMUNOASSAY/ *SOMATOTROPIN,
blood/ SPECTROPHOTOMETRY/
TEMPERATURE/ TIME FACTORS

A semiautomated technic for radioimmunoassay. Double antibody assay of insulin. Haas ML, et al.
Diabetes 19:127-31, Feb 70
*AUTOANALYSIS/ AUTOANALYSIS,
instrumentation/ *INSULIN, blood/ METHODS/

*RADIOIMMUNOASSAY/
RADIOIMMUNOASSAY, instrumentation

Diurnal patterns of blood glucose, serum free fatty acids, insulin, glucagon and growth hormone in normals and juvenile diabetics. Hansen AP, et al.
Diabetologia 6:27-33, Feb 70

ADOLESCENCE/ ADULT/ *BLOOD SUGAR,
analysis/ CHILD/ *CIRCADIAN RHYTHM/
COLORIMETRY/ *DIABETES MELLITUS,
JUVENILE, blood/ *FATTY ACIDS,
NONESTERIFIED, blood/ *GLUCAGON, blood/
HUMAN/ *INSULIN, blood/ MALE/
METHODS/ RADIOIMMUNOASSAY/
*SOMATOTROPIN, blood

Evaluation of angiotension II metabolism in sheep by radioimmunoassay. Cain MD, et al.

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ADRENALECTOMY/ ANGIOTENSIN,
biosynthesis/ *ANGIOTENSIN, blood/
ANGIOTENSIN, metabolism/ ANGIOTENSIN
AMIDE, pharmacodynamics/ ANIMAL
EXPERIMENTS/ BLOOD PRESSURE/
CHROMATOGRAPHY, PAPER/
HYPONATREMIA/ LUNG, physiology/
METABOLIC CLEARANCE RATE/ METHODS/
NEPHRECTOMY/ *RADIOIMMUNOASSAY/
*RENIN, blood/ RENIN, pharmacodynamics/
SHEEP/ *SODIUM, metabolism/ TIME
FACTORS

A radioimmunoassay for rhesus monkey luteinizing hormone (RhLH). Monroe SE, et al.

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BIOLOGICAL ASSAY/ CASTRATION/
CHLORAMINES/ CHROMATOGRAPHY, ION
EXCHANGE/ FSH, analysis/ FSH, blood/ GEL
FILTRATION/ GONADOTROPINS, CHORIONIC,
blood/ GUINEA PIGS/ HYPOPHYSECTOMY/
IODINE ISOTOPES/ LH, analysis/ *LH, blood/
LH, standards/ METHODS/ *MONKEYS/
PITUITARY GLAND, analysis/ RABBITS/
*RADIOIMMUNOASSAY/ THYROTROPIN,
analysis

Immunological cross-reactivity between monkey and human thyroid stimulating hormone as determined by radioimmunoassay: a rapid procedure for purifying labeled 125I-TSH. Wherry FE, et al.
Endocrinology 86:769-73, Apr 70

ANIMAL EXPERIMENTS/ BIOLOGICAL
ASSAY/ CASTRATION/ FASTING/ HUMAN/
17-HYDROXYCORTICOSTEROIDS, urine/
HYPOPHYSECTOMY/ IODINE ISOTOPES/
METHODS/ MONKEYS/
*RADIOIMMUNOASSAY/ *THYROTROPIN,
blood/ THYROTROPIN, isolation &
purification/ THYROXINE, pharmacodynamics

A method of solid phase radioimmunoassay utilizing polypropylene discs. Crosignani PG, et al.

J Clin Endocr 30:153-60, Feb 70
*ALKENES/ BUFFERS/ ELECTRIC
CONDUCTIVITY/ *ENDOCRINOLOGY/
FEMALE/ *GONADOTROPINS, CHORIONIC,
blood/ HUMAN/ HYDROGEN-ION
CONCENTRATION/ IODINE ISOTOPES/ *LH,
blood/ MENSTRUATION/ METHODS/
OSMOLAR CONCENTRATION/ *PLACENTAL
HORMONES, blood/ PLACENTAL LACTOGEN,
blood/ *PLASTICS/ *POLYMERS/
*RADIOIMMUNOASSAY

Hormonal changes in puberty. II. Correlation of serum luteinizing hormone and follicle stimulating hormone with stages of puberty and bone age in normal girls. Sizonenko PC, et al. Pediat Res 4:36-45, Jan 70
ADOLESCENCE/ AGE FACTORS/ *BONE
DEVELOPMENT/ CHILD/ CHILD,
PRESCHOOL/ DWARFISM, PITUITARY,
blood/ FEMALE/ *FSH, blood/ HUMAN/ *LH,
blood/ MENSTRUATION/ METHODS/
*PUBERTY/ RADIOIMMUNOASSAY/ SEX
FACTORS/ TURNER'S SYNDROME, blood

Radioimmunoassay for the measurement of adenosine 3',5'-cyclic phosphate. Steiner AL, et al.
Proc Nat Acad Sci USA 64:367-73, Sep 69
*ADENINE NUCLEOTIDES, analysis/

See also pages 254 - 255.

METHOD SECTION

ADENOSINE CYCLIC 3',5'-PHOSPHATE, analysis/ ADENOSINE CYCLIC 3',5'-PHOSPHATE, chem synthesis/ ANIMAL EXPERIMENTS/ BRAIN CHEMISTRY/ EPIDIDYMIS, analysis/ IODINE ISOTOPES, DIAGNOSTIC/ KIDNEY, analysis/ LIVER, analysis/ METHODS/ PITUITARY GLAND, analysis/ PROTEIN-BOUND IODINE TEST/ *RADIOIMMUNOASSAY/ RATS

Solid-phase radioimmunoassay for sheep growth hormone. Trenkle A.

Proc Soc Exp Biol Med 133:1018-22, Mar 70
AGE FACTORS/ ALKENES/ ANIMAL EXPERIMENTS/ BLOOD SUGAR/ CATTLE/ FASTING/ FATTY ACIDS, NONESTERIFIED, blood/ IODINE ISOTOPES/ METHODS/ POLYSTYRENES/ *RADIOIMMUNOASSAY/ SHEEP/ *SOMATOTROPIN, blood/ TEMPERATURE/ TIME FACTORS

Radioimmunoassay of plasma estrone and estradiol.

Mikhail G, et al. Steroids 15:333-52, Mar 70
ANIMAL EXPERIMENTS/ ANTIBODY FORMATION/ ANTIGEN-ANTIBODY REACTIONS/ CATTLE/ CENTRIFUGATION/ CHROMATOGRAPHY/ COLD/ *ESTRADIOL, blood/ ESTRADIOL, pharmacodynamics/ *ESTRONE, blood/ ESTRONE, pharmacodynamics/ FEMALE/ FSH, blood/ GONADOTROPINS, blood/ HYDROGEN-ION CONCENTRATION/ LH, blood/ MENSTRUATION/ METHODS/ PROTEIN BINDING/ *RADIOIMMUNOASSAY/ SERUM ALBUMIN, BOVINE/ SHEEP/ TEMPERATURE/ TIME FACTORS/ TRITIUM

Extraction of plasma insulin in radioimmunoassay for removal of nonspecific inhibitor and of circulating insulin antibody. Oneda A, et al.

Tohoku J Exp Med 100:75-84, Jan 70
ACETONE/ ADOLESCENCE/ ADULT/ ALCOHOL, ETHYL/ BLOOD SUGAR, analysis/ CHILD, PRESCHOOL/ CHROMATOGRAPHY, PAPER/ DIABETES MELLITUS, blood/ DIABETES MELLITUS, immunology/ FEMALE/ HUMAN/ IMMUNE SERUMS/ IMMUNOELECTROPHORESIS/ *INSULIN, blood/ *INSULIN ANTIBODIES, analysis/ IODINE ISOTOPES/ MALE/ METHODS/ MIDDLE AGE/ RABBITS/ *RADIOIMMUNOASSAY/ SERUM ALBUMIN, analysis/ SERUM GLOBULINS, analysis

[Modification of the Hales-Randle procedure for the radioimmunoassay of insulin] Quabbe HJ.

Diabetologia 5:101-7, Apr 69 (Ger)
ANIMAL EXPERIMENTS/ CENTRIFUGATION/ DOGS/ ENGLISH ABSTRACT/ FILTRATION/ *INSULIN, blood/ METHODS/ *RADIOIMMUNOASSAY

INSTRUMENTATION

A semiautomated technic for radioimmunoassay.

Double antibody assay of insulin. Haas ML, et al. Diabetes 19:127-31, Feb 70
*AUTOANALYSIS/ AUTOANALYSIS, instrumentation/ *INSULIN, blood/ METHODS/ *RADIOIMMUNOASSAY/ RADIOIMMUNOASSAY, instrumentation

RADIOISOTOPE DILUTION TECHNIC

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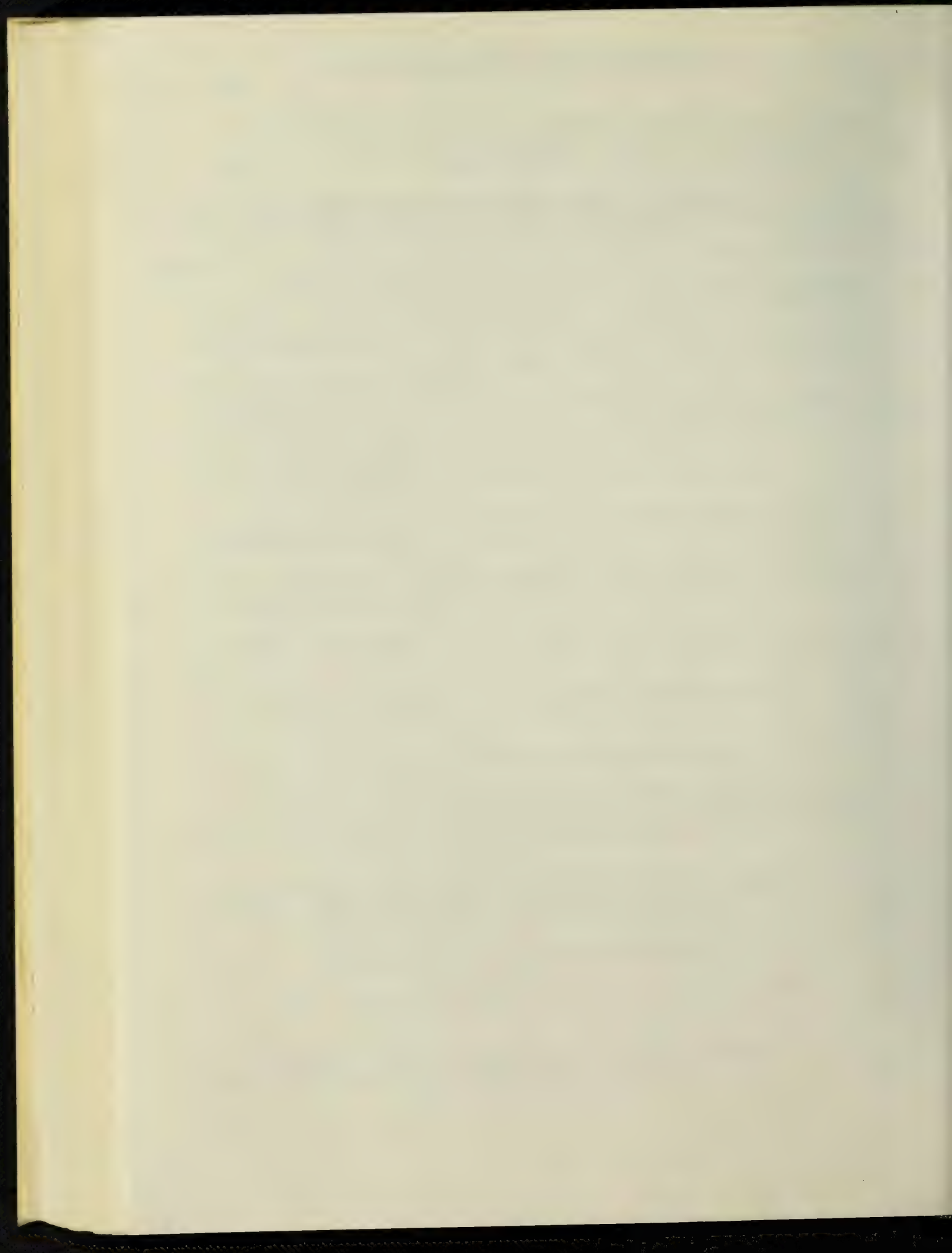
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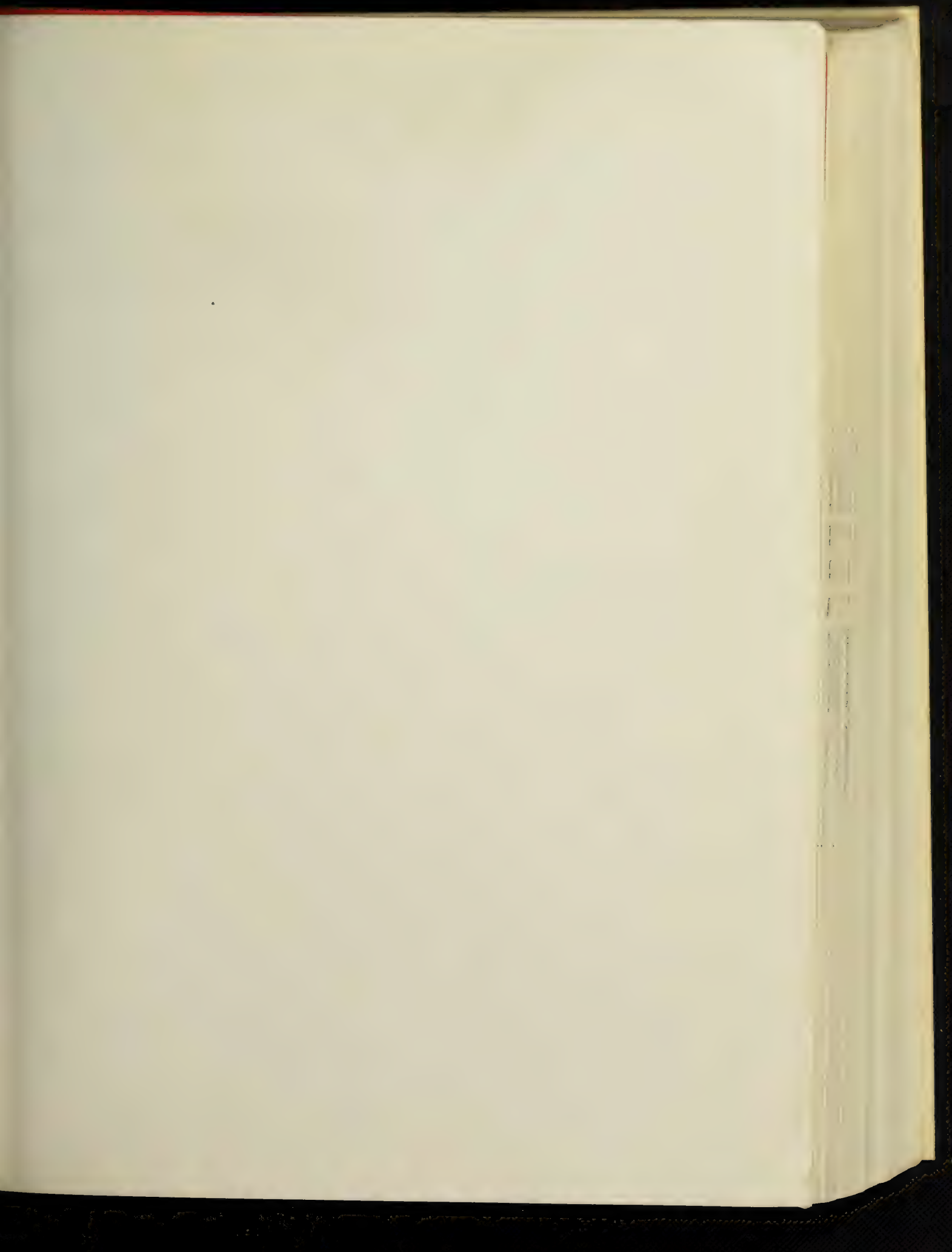
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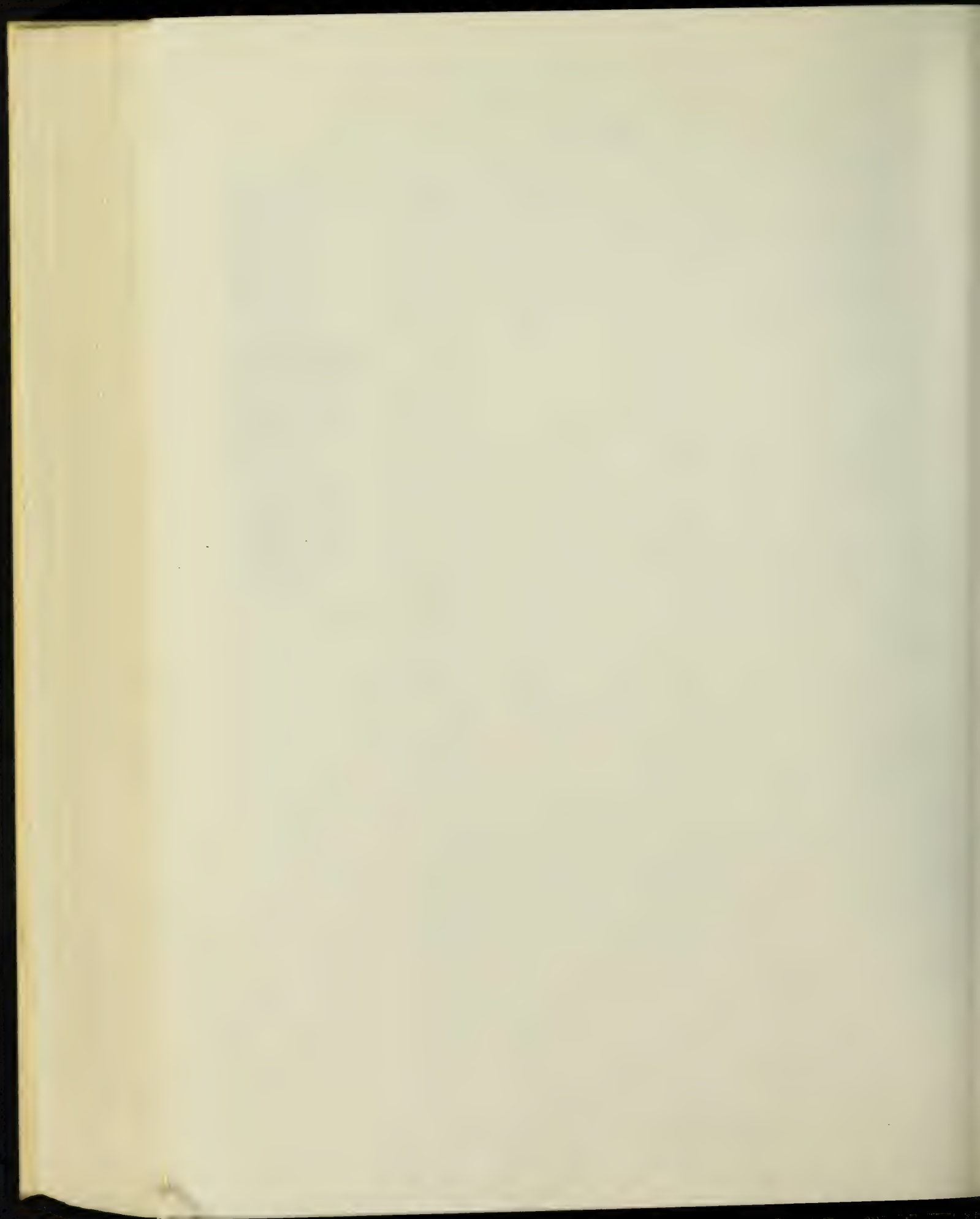
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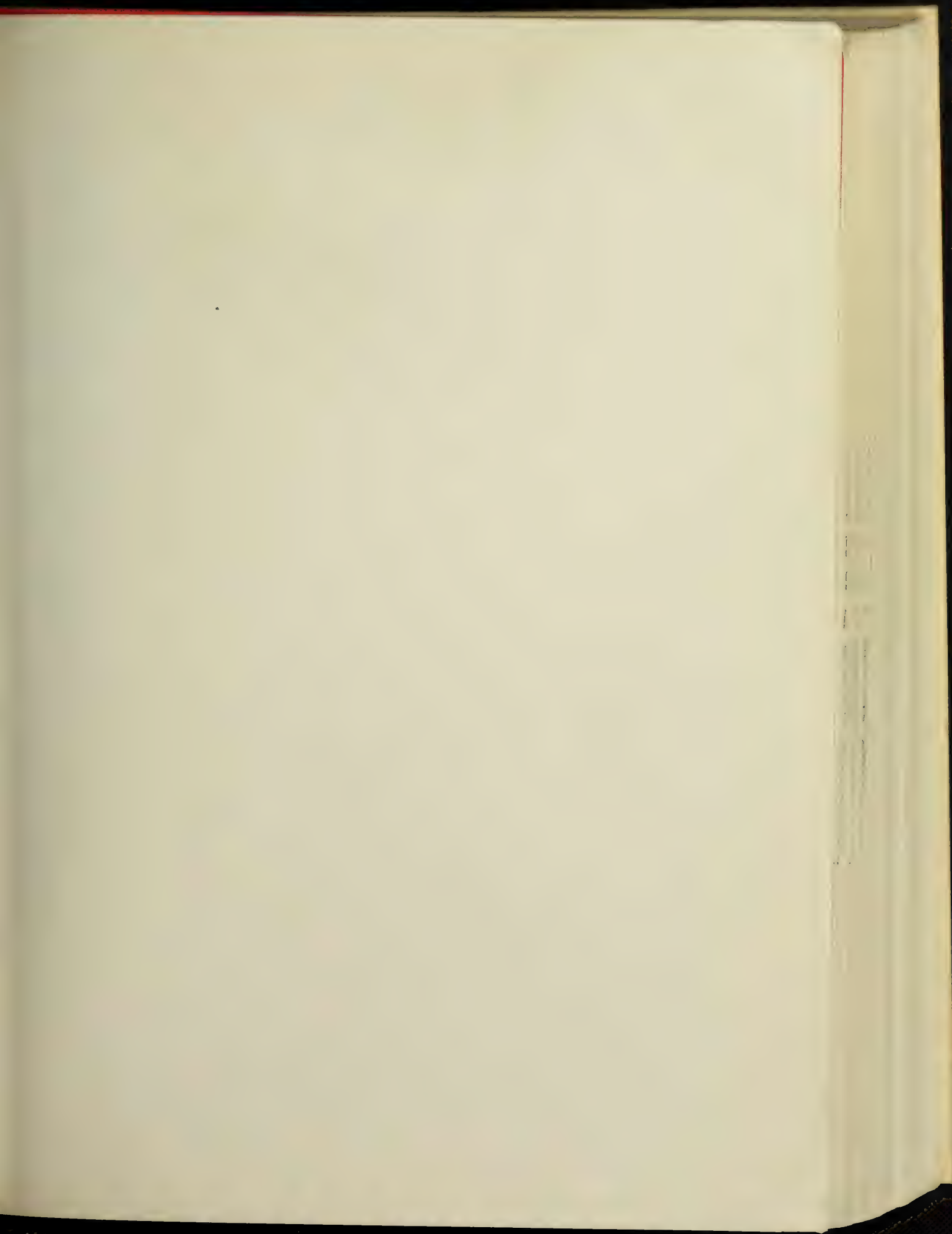
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ENDOCRINOLOGY INDEX

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EXPLANATION OF FORMAT

The period covered by this issue of the bibliography corresponds to the same months of *Index Medicus*. The journal coverage is limited to journals covered by *Index Medicus*, but the *Endocrinology Index* contains additional subject headings that are not included in *Index Medicus*. The *Endocrinology Index* is arranged in seven sections: 1) Table of Contents; 2) Subject Section; 3) Review Section; 4) Method Section; 5) Author Section; 6) Subject Index; and 7) Author Index.

Subject Section

The Subject Section is for the reader interested in recent literature related to certain broad topics and is divided into eight categories (pituitary, thyroid, etc.). The endocrine pancreas has not been included since it is the subject of another recurring bibliography, *Diabetes Literature Index*. Each category has a preconceived hierarchical organization of subject headings. A particular citation may appear more than once if it deals with multiple topics. Each citation to an article contains the full title, first author, and journal reference. If the article is written in a foreign language, the language is indicated. If the citation is to a review article, the number of references is given.

Author Section

The Author Section provides the reader with a list of keywords or index terms assigned to each citation. Each article appears only once. The citations are arranged alphabetically according to first author and are

numbered consecutively. These numbers are then used in the Author and Subject Indexes to enable the reader to identify references with ease. The complete citations (including index terms) are found but only the first three authors are listed. Foreign titles appear in the original language; these titles have been translated into English in the Subject Section. Following each citation are index terms which have been assigned to describe the contents of the article. Index terms appear in capital letters; some of these are accompanied by subheadings which appear in lower case letters. Asterisks (*) identify the index terms under which articles appear in *Index Medicus*.

Subject Index

All of the index terms assigned to the citations appearing in the bibliography are listed, followed by citation numbers which correspond to the numbers in the Author Section. The Subject Index is included for the convenience of the reader who wishes to select articles falling in categories of his own conception. For example, one who is interested in protein binding of a particular hormone could quickly find whether there were any articles dealing with this subject by determining if there were any citation numbers common to the two headings "protein binding" and the name of the specific hormone.

Author Index

The names of all authors are listed, followed by citation numbers which correspond to the numbers in the Author Section.

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ENDOCRINOLOGY INDEX

National Institute of Arthritis
and Metabolic Diseases

Edited by
N. Victoria Ragin

Developed with the support of Contract PH43-66-480 to Vanderbilt University
under the direction of Grant W. Liddle, M.D.

Advisory Committee:

Gerald D. Aurbach, M.D.
Robert W. Bates, Ph.D.
Nicholas P. Christy, M.D.
Melvin M. Grumbach, M.D.

Joseph L. Izzo, M.D.
Seymour Lieberman, Ph.D.
Jacob Robbins, M.D.
Kenneth J. Ryan, M.D.

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PREFACE

The *Endocrinology Index* is a bimonthly publication of the National Institute of Arthritis and Metabolic Diseases. This selected bibliography which is produced from the National Library of Medicine's Medical Literature Analysis and Retrieval System (MEDLARS), has been initiated to supply those scientists working in the field of endocrinology with a much needed current awareness tool and is intended to help facilitate greater integration of research and clinical efforts in this field.

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PITUITARY GLAND, POSTERIOR

ABNORMALITIES

- Severe adrenal hypoplasia in a live-born normocephalic
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- [Plasmatic lipids in patients with pituitary and
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THYROID

IV. Thyroid Antagonists and Inhibitors

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THERAPEUTIC USE

The peripheral metabolism of triiodothyronine in normal subjects and in patients with hyperthyroidism. Woeber KA, et al. *J Clin Invest* 49:643-9, Apr 70

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- [Tolerance to iodide products during intravenous cholangiography using the perfusion method] Gasto Parramona JM. *Rev Esp Enferm Apar Dig* 30:453-6, 15 Feb 70 (Spa)

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ADRENAL MEDULLA

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- A new and simple method for isolation of adrenal chromaffin granules by means of an isotonic density gradient. Trifaró JM, et al.
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GONADS

II. Disorders of the Gonads

ARRHENOBLASTOMA

DIAGNOSIS

Arrhenoblastoma of the ovary. Presentation of a case report and a discussion of the differential diagnosis. Radman HM, et al. Amer J Obstet Gynec 106:1187-90, 15 Apr 70

PATHOLOGY

Arrhenoblastoma of the ovary. Presentation of a case report and a discussion of the differential diagnosis. Radman HM, et al. Amer J Obstet Gynec 106:1187-90, 15 Apr 70

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Endocrine studies in the arrhenoblastoma. Mahesh VB, et al. Amer J Obstet Gynec 107:183-7, 15 May 70

URINE

Endocrine studies in the arrhenoblastoma. Mahesh VB, et al. Amer J Obstet Gynec 107:183-7, 15 May 70

CORPUS LUTEUM CYST

CLASSIFICATION

Influence of luteal cysts on menstrual function. Piver MS, et al. Obstet Gynec 35:740-51, May 70

COMPLICATIONS

Influence of luteal cysts on menstrual function. Piver MS, et al. Obstet Gynec 35:740-51, May 70
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Influence of luteal cysts on menstrual function. Piver MS, et al. Obstet Gynec 35:740-51, May 70

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[Corpus luteum cysts in cows and their significance as sterility factor] Grunert E. Deutsch Tierärztl Wschr 76:668-72, 1 Dec 69 (Ger)

CRYPTORCHISM

Sex chromosome mosaicism in 3 sibs. Clinical and pathologic aspects. Goldstein A, et al. Amer J Obstet Gynec 107:108-15, 1 May 70

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Urinary steroid excretion in cryptorchidism in the pig. Liptrap RM, et al. J Reprod Fertil 21:293-301, Mar 70

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Germinal cell deficiency of the undescended testis: a congenital defect. Farrington GH. Surg Forum 20:540-2, 1969

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DISGERMINOMA

Sex chromosome mosaicism in 3 sibs. Clinical and pathologic aspects. Goldstein A, et al. Amer J Obstet Gynec 107:108-15, 1 May 70

[On primary malignant neoplasms of the spermatic cord] Bologna A, et al. Minerva Chir 25:423-34, 15 Mar 70 (Ita)

[4 cases of testicular tumor] Kinura S, et al. Iryo 24:72-6, Jan 70 (Jap)

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Peripheral sensorimotor neuropathy in association with a seminoma of an undescended testicle. Littler WA. Postgrad Med J 46:166-7, Mar 70

DIAGNOSIS

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DRUG THERAPY

Vinblastine in the management of testicular cancer. Samuels ML, et al. Cancer 25:1009-17, May 70

DISGERMINOMA

ETIOLOGY

Gonadoblastoma in male pseudohermaphroditism.
Breckenridge RL, et al. *Exp Med Surg* 27:330-5, 1969

PATHOLOGY

Differentiation of normal and malignant cells. Pierce
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opacification of the liver during lymphangiography]
Bobbio P, et al. *Minerva Chir* 25:247-55, 28 Feb 70 (Ita)

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URINE

Urinary gas-chromatographic steroid spectra and
testicular tumours. Frensdorf EL, et al.
Clin Chim Acta 28:77-81, Apr 70

VETERINARY

Seminoma in a dog. Patnaik GM, et al.
Indian Vet J 46:1035-8, Dec 69

EUNUCHISM

Presence of dysgenetic testes in eunuchoid females.
Boczkowski K.

Amer J Obstet Gynec 107:319-20, 15 May 70
[Trans-sexualism: respective value of the biological
and psychic determinants. 2 cases] Routier G, et al.
Sem Hop Paris 46:947-52, 20 Mar 70 (Fre)

COMPLICATIONS

Obstructing prostatic calculi in a eunuch. Dahl DS.
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with progressive muscular dystrophy] Hallen O.
Deutsch Z Nervenheilk 197:101-24, 1970 (Ger)

DRUG THERAPY

[The state of the nerve cells of the organ plexus of the
prostate gland following castration]
Denisov-Nikol'skii Iu.
Biull Eksp Biol Med 67:107-10, May 69 (Rus)

FAMILIAL & GENETIC

Hypogonadism in chromatin-negative phenotypic male
subjects. Donohue JP. *J Urol* 103:645-51, May 70

METABOLISM

The total-body potassium content of humans in health
and disease. Dykes PW, et al.
Brit J Radiol 43:283, Apr 70

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[The state of the nerve cells of the organ plexus of the
prostate gland following castration]
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GONADS

ABNORMALITIES

Variability of the human XX-XY mosaic. Jackson WP,
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[Effects of parathion on quail embryo development and
certain of its organs in vivo and in vitro]
Lutz-Ostertag Y, et al.
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GONADS

GRANULOSA CELL TUMOR

ETIOLOGY

[Histologic changes in the ovary following its
irradiation] Gubareva AV.
Biull Eksp Biol Med 67:61-3, May 69 (Rus)

PATHOLOGY

[Histologic changes in the ovary following its
irradiation] Gubareva AV.
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HERMAPHRODITISM

Presence of dysgenetic testes in eunuchoid females.
Boczkowski K.

Amer J Obstet Gynec 107:319-20, 15 May 70
[Various aspects of experimental intersexuality in
chickens (*Gallus gallus*) and quails (*Coturnix coturnix*
japonica)] Haffen K.
Bull Biol France Belg 103:401-17, 1969 (Fre)
[Management of a case of male hermaphroditism]
Boczkowski K, et al. *Ginek Pol* 41:207-12, Feb 70 (Pol)
[Management of patients with hermaphroditism]
Boczkowski K. *Pol Tyg Lek* 25:268-70, 16 Feb 70 (Pol)
[More on the choice of sex in children with intersexual
development] Zhukovskii MA, et al.
Vop Okhr Materin Dets 15:54-6, Feb 70 (Rus)

COMPLICATIONS

Gonadoblastoma in male pseudohermaphroditism.
Breckenridge RL, et al. *Exp Med Surg* 27:330-5, 1969
XO-XX-XXX mosaicism with possible congenital
adrenal hyperplasia. Edwards JA, et al.
J Clin Endocr 30:666-9, May 70

DIAGNOSIS

Adrenogenital syndrome producing female
pseudohermaphroditism with a phallic urethra.
Gillenwater JY, et al. *J Urol* 103:500-4, Apr 70
[Indications for chromosome analysis in childhood]
Goetz P, et al. *Cesk Pediat* 25:161-5, Apr 70 (Cze)
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F, et al. *Z Urol* 62:921-6, Dec 69 (Ger)
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differential diagnosis of hermaphroditism in
children] Krawczynski M.
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OXANDROLONE

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- The surgical pathology of parathyroid chief cell hyperplasia. Black WC, et al.
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Parathyroid intoxication. Breidahl HD, et al.
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PARATHYROID GLANDS

ABNORMALITIES

[Acute hyperparathyroidism associated with a dystopic
epithelial corpuscle located in the thymus] Hänze S,
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INJURIES

Thyroid disease: surgical concepts. Tardy ME, et al.
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PARATHYROID NEOPLASMS

Urinary polypeptides related to collagen synthesis.
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Problems posed by adenomas of parathyroid. Gross GF,
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PARATHYROID AND BONE

III. Parathyroid Hormone

PARATHYROID HORMONE

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BIOSYNTHESIS

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II. Biogenic Amines and Transmitters in the Nervous System

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Isolation and chemical properties of two calcitonins from salmon ultimobranchial glands. Keutmann HT, et al. J Biol Chem 245:1491-6, 25 Mar 70

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MAMMAE, drug effects/ MAMMAE,
physiology/ METHODS/ MICE/ MUSCLE,
SMOOTH, physiology/ NOREPINEPHRINE,
pharmacodynamics/ *OXYTOCIN, analysis/
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[17-ketonizing reactions of pur corticosteroids, with
special reference to evaluation of 17-KGS
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ADDISON'S DISEASE, drug therapy/
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ASSAY/ BISMUTH/ CHEMISTRY/
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PAPER/ COMPARATIVE STUDY/ ENGLISH
ABSTRACT/ HUMAN/ *17-KETOSTEROIDS,
analysis/ METHODS/ RADIOMETRY/ SODIUM/
SPECTRUM ANALYSIS

CENTRIFUGATION

The metabolism of adenosine 3',5'-cyclic phosphate. I.
Method for the determination of adenylyl cyclase and
some properties of the adenylyl cyclase isolated from
the rat kidney. Douša T, et al.

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purification/ ADENOSINE CYCLIC
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enzymology/ KINETICS/ METHODS/ RATS/
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occurrence/ HUMAN/ IODINE, analysis/
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CONVULSIONS/ FLUOROACETATES/ HEAT/
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The metabolism of adenosine 3',5'-cyclic phosphate. I.
Method for the determination of adenylyl cyclase and
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Isolation and chemical properties of two calcitonins
from salmon ultimobranchial glands. Keutmann HT,
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AMINO ACIDS, analysis/ ANIMAL
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HUMAN/ METHODS/ MICE/ RATS/
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[17-ketonizing reactions of pur corticosteroids, with
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CHEMISTRY, CLINICAL

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Immunological reactivity of insulin to sepharose coupled with insulin-antibody---its use for the extraction of insulin from serum. Akanuma Y, et al. *Biochem Biophys Res Commun* 38:947-53, 12 Mar 70

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CONCENTRATION/ *INSULIN, blood/
INSULIN, isolation & purification/ *INSULIN
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Concentration and purification of human chorionic somato-mammotropin (HCS) by affinity chromatography: application to radioimmunoassay. Weintraub BD.

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CARCINOMA, BRONCHOGENIC, metabolism/
*CHROMATOGRAPHY/ CROSS REACTIONS/
FEMALE/ FSH, analysis/ GONADOTROPINS,
CHORIONIC, analysis/ HUMAN/ IODINE
ISOTOPES/ LH, analysis/ METHODS/
POLYSACCHARIDES/ PREGNANCY/
PROLACTIN, analysis/ PROLACTIN, blood/
*PROLACTIN, isolation & purification/
PROLACTIN, metabolism/ PROTEINS, isolation
& purification/ RADIOIMMUNOASSAY/
SOMATOTROPIN, analysis

Purification and properties of follicle-stimulating hormone from sheep pituitary glands. Sherwood OD, et al. *J Biol Chem* 245:2328-36, 10 May 70

ALCOHOL, ETHYL/ AMINO ACIDS, analysis/
AMMONIUM COMPOUNDS/ ANIMAL
EXPERIMENTS/ ANTIBODIES/ ANTIGENS/
BIOLOGICAL ASSAY/ CHROMATOGRAPHY/
CHROMATOGRAPHY, ION EXCHANGE/
ELECTROPHORESIS, DISK/ FEMALE/ *FSH/
FSH, analysis/ FSH, isolation & purification/
FSH, pharmacodynamics/ GEL DIFFUSION
TESTS/ GEL FILTRATION/ HYDROGEN-ION
CONCENTRATION/ HYDROXYAPATITE/
HYPOPHYSECTOMY/
IMMUNOELECTROPHORESIS/ ISOELECTRIC
FOCUSING/ MALE/ METHODS/ MOLECULAR
WEIGHT/ ORGAN WEIGHT/ OVARY, drug
effects/ PHOSPHORIC ACIDS/ *PITUITARY
GLAND, analysis/ PITUITARY GLAND,
physiology/ PRECIPITATION/ PROSTATE,
drug effects/ RATS/ SEMINAL VESICLES,
drug effects/ SHEEP/ STIMULATION,
CHEMICAL/ SULFATES/ TESTIS, drug
effects

Isolation of cyclic 3',5'-adenosine monophosphate on a neutral silicic acid-glass microfiber matrix. Woods WD, et al. *J Chromatogr* 47:536-42, 31 Mar 70

*ADENINE NUCLEOTIDES, isolation &
purification/ ADENOSINE CYCLIC
3',5'-PHOSPHATE, analysis/ ADENOSINE
CYCLIC 3',5'-PHOSPHATE, isolation &
purification/ CHROMATOGRAPHY/ GLASS/
METHODS/ NUCLEOSIDES, analysis/
PURINONES, analysis/ SILICA

[17-ketoning reactions of pur corticosteroids, with special reference to evaluation of 17-KGS determination] Okamoto T.

Folia Endocr Jap 45:1082-102, 20 Jan 70 (Jap)

ADDISON'S DISEASE, drug therapy/
ADDISON'S DISEASE, urine/ *ADRENAL
CORTX HORMONES, analysis/ BIOLOGICAL
ASSAY/ BISMUTH/ CHEMISTRY/
CHROMATOGRAPHY/ CHROMATOGRAPHY,
PAPER/ COMPARATIVE STUDY/ ENGLISH
ABSTRACT/ HUMAN/ *17-KETOSTEROIDS,
analysis/ METHODS/ RADIOMETRY/ SODIUM/
SPECTRUM ANALYSIS

[Quantitative determination of urinary estrogens by gas liquid chromatography] Tsuruta S.

Folia Endocr Jap 45:1041-58, 20 Jan 70 (Jap)
CHROMATOGRAPHY/ *CHROMATOGRAPHY,
GAS/ CHROMATOGRAPHY, THIN LAYER/
COMPARATIVE STUDY/ ENGLISH

ABSTRACT/ *ESTROGENS, urine/ FEMALE/
FLUOROMETRY/ HUMAN/ MALE/ METHODS/
*PREGNANCY

CHROMATOGRAPHY, GAS

Identification of O-methyloximes of ketosteroids by gas chromatography, thin-layer chromatography, mass spectra, and kinetic studies. Dray F, et al. *Anal Biochem* 34:387-402, Apr 70

ANDROSTANES, analysis/ CARBON
ISOTOPES/ CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, PAPER/
CHROMATOGRAPHY, THIN LAYER/
INFRARED RAYS/ KETONES, analysis/
17-KETOSTEROIDS, analysis/ KINETICS/
METHODS/ MICROCHEMISTRY/ *OXIMES,
analysis/ PROGESTERONE, analysis/
SPECTROPHOTOMETRY/ *SPECTRUM
ANALYSIS/ *STERIODS, analysis/
TESTOSTERONE, analysis/ TRITIUM

Characterization and estimation of urinary steroids of the newborn human by gas-phase analytical methods.

Horning MG, et al. *Anal Biochem* 31:512-31, 1 Oct 69

AGING/ ANDROSTANES, urine/ CARBON
ISOTOPES/ *CHROMATOGRAPHY, GAS/
HUMAN/ 17-HYDROXYCORTICOSTEROIDS,
urine/ INFANT/ *INFANT, NEWBORN/
MALE/ MATERNAL-FETAL EXCHANGE/
METHODS/ PREGNANES, urine/ SILICON/
SPECTRUM ANALYSIS/ *STERIODS, urine

Three hydrolysis methods for 17-ketosteroid sulfates compared by colorimetric and gas-liquid chromatographic analyses. Muehlbaeher CA, et al. *Clin Chem* 16:158-60, Mar 70

ACETATES/ ANDROSTERONE, urine/
*CHROMATOGRAPHY, GAS/ *COLORIMETRY/
COMPARATIVE STUDY/
DEHYDROEPIANDROSTERONE, urine/
FURANS/ HYDROCHLORIC ACID/
*17-KETOSTEROIDS, urine/ METHODS/
PERCHLORIC ACIDS/ SOLVENTS/ SULFURIC
ACIDS, urine/ TRITIUM

Urinary gas-chromatographic steroid spectra and testicular tumours. Frensdorff EL, et al. *Clin Chim Acta* 28:77-81, Apr 70

ADULT/ AGED/ *CHROMATOGRAPHY, GAS/
DISGERMINOMA, urine/ ESTROGENS, urine/
HUMAN/ 17-HYDROXYCORTICOSTEROIDS,
urine/ 17-KETOSTEROIDS, urine/ LACTATE
DEHYDROGENASE ISOENZYMES, urine/
MALE/ METHODS/ *STERIODS, urine/
TERATOID TUMOR, urine/ TESTICULAR
NEOPLASMS, diagnosis/ *TESTICULAR
NEOPLASMS, urine/ TESTIS, pathology

Quantitative gas-liquid chromatographic determination of estrone in dermatological products.

Karkhanis PP, et al. *J Pharm Sci* 59:535-7, Apr 70

*CHROMATOGRAPHY, GAS/
*DERMATOLOGIC AGENTS, analysis/
EMULSIONS/ *ESTRONE, analysis/
17-KETOSTEROIDS, analysis/ METHODS/
OINTMENTS/ SUSPENSIONS

[Gas liquid chromatography of estrogen heptafluorobutyrate by the dry sampling method] Honda K. *Clin Endocr (Tokyo)* 18:161-6, Feb 70 (Jap)

BUTYRATES, analysis/ *CHROMATOGRAPHY,
GAS/ *ESTROGENS, analysis/ FLUORIDES,
analysis/ METHODS

[Quantitative determination of urinary estrogens by gas liquid chromatography] Tsuruta S.

Folia Endocr Jap 45:1041-58, 20 Jan 70 (Jap)
CHROMATOGRAPHY/ *CHROMATOGRAPHY,
GAS/ CHROMATOGRAPHY, THIN LAYER/
COMPARATIVE STUDY/ ENGLISH
ABSTRACT/ *ESTROGENS, urine/ FEMALE/
FLUOROMETRY/ HUMAN/ MALE/ METHODS/
*PREGNANCY

STANDARDS

Quantitative analysis of free phytosterols by gas chromatography using stationary phase OV-101. Grunwald C. *Anal Biochem* 34:16-23, Mar 70

METHOD SECTION

*CHOLESTANES, analysis/ CHOLESTEROL, analysis/ *CHROMATOGRAPHY, GAS, standards/ DIGITALIS GLYCOSIDES/ METHODS/ *PLANTS, analysis/ PRECIPITATION/ *STEROLS, analysis/ TOBACCO, analysis

CHROMATOGRAPHY, ION EXCHANGE

Thyroglobulin iodoamino acids estimation after digestion with pronase and leucylaminopeptidase. Rolland M, et al. *Anal Biochem* 33:307-17, Feb 70

*AMINO ACIDS, analysis/ ANIMAL EXPERIMENTS/ ARSENIC/ CATTLE/ CERURIUM/ CHROMATOGRAPHY, ION EXCHANGE/ DOGS/ HORSES/ HUMAN/ IODINE, analysis/ IODINE ISOTOPES/ IODOPROTEINS, analysis/ *LEUCINE AMINOPEPTIDASE/ METHODS/ *PEPTIDE HYDROLASES/ RATS/ SHEEP/ SPECIES SPECIFICITY/ *THYROGLOBULIN, analysis/ TIME FACTORS

Preparation and characterization of diphenylthiocarbamyl-insulin and des-gly A1-des phe B1-insulin (bovine). Africa B, et al. *Biochemistry* (Wash) 9:1962-72, 28 Apr 70

ALANINE/ AMINES/ AMINO ACIDS, analysis/ ANIMAL EXPERIMENTS/ BUFFERS/ CARBON ISOTOPES/ CHEMISTRY/ CHROMATOGRAPHY, ION EXCHANGE/ CONVULSIONS/ FLUOROACETATES/ HEAT/ HYDROGEN-ION CONCENTRATION/ INDICATORS AND REAGENTS/ *INSULIN, isolation & purification/ KINETICS/ LYSINE/ METHODS/ MICE/ NITROBENZENES/ PEPTIDES/ PHENOLS/ THIOCYANATES/ TYROSINE/ UREA/ VALINE/ ZINC

A semiautomated nonincineration technique for determining serum thyroxine. Kessler G, et al. *Clin Chem* 16:382-9, May 70

ACETIC ACIDS/ ARSENIC/ *AUTOANALYSIS/ AUTOANALYSIS, instrumentation/ BLOOD CHEMICAL ANALYSIS, standards/ CERURIUM/ CHROMATOGRAPHY, ION EXCHANGE/ COMPARATIVE STUDY/ CONTRAST MEDIA/ HUMAN/ HYDROGEN-ION CONCENTRATION/ IODINE/ IODINE ISOTOPES/ METHODS/ RADIOGRAPHY/ *THYROXINE, blood/ THYROXINE, isolation & purification/ TIME FACTORS/ *TRIIODOTHYRONINE, blood/ TRIIODOTHYRONINE, isolation & purification

Isolation and chemical properties of two calcitonins from salmon ultimobranchial glands. Keutmann HT, et al. *J Biol Chem* 245:1491-6, 25 Mar 70

AMINO ACIDS, analysis/ ANIMAL EXPERIMENTS/ BIOLOGICAL ASSAY/ CALCIUM, blood/ CATTLE/ CHEMISTRY/ CHROMATOGRAPHY, ION EXCHANGE/ CHROMATOGRAPHY, THIN LAYER/ DEPRESSION, CHEMICAL/ ELECTROPHORESIS, DISK/ ENDOCRINE GLANDS/ FEMALE/ GEL FILTRATION/ HUMAN/ METHODS/ MICE/ RATS/ *SALMONIDAE/ SHEEP/ SPECIES SPECIFICITY/ SWINE/ *THYROCALCITONIN/ THYROCALCITONIN, analysis/ THYROCALCITONIN, isolation & purification/ THYROCALCITONIN, pharmacodynamics/ TRYPSIN/ ULTRAVIOLET RAYS

Purification and properties of follicle-stimulating hormone from sheep pituitary glands. Sherwood OD, et al. *J Biol Chem* 245:2328-36, 10 May 70

ALCOHOL, ETHYL/ AMINO ACIDS, analysis/ AMMONIUM COMPOUNDS/ ANIMAL EXPERIMENTS/ ANTIBODIES/ ANTIGENS/ BIOLOGICAL ASSAY/ CHROMATOGRAPHY/ CHROMATOGRAPHY, ION EXCHANGE/ ELECTROPHORESIS, DISK/ FEMALE/ *FSH/ FSH, analysis/ FSH, isolation & purification/ FSH, pharmacodynamics/ GEL DIFFUSION TESTS/ GEL FILTRATION/ HYDROGEN-ION CONCENTRATION/ HYDROXYAPATITE/ HYPOPHYSECTOMY/ IMMUNOELECTROPHORESIS/ ISOELECTRIC

FOCUSING/ MALE/ METHODS/ MOLECULAR WEIGHT/ ORGAN WEIGHT/ OVARY, drug effects/ PHOSPHORIC ACIDS/ *PITUITARY GLAND, analysis/ PITUITARY GLAND, physiology/ PRECIPITATION/ PROSTATE, drug effects/ RATS/ SEMINAL VESICLES, drug effects/ SHEEP/ STIMULATION, CHEMICAL/ SULFATES/ TESTIS, drug effects

CHROMATOGRAPHY, PAPER

Identification of O-methyloximes of ketosteroids by gas chromatography, thin-layer chromatography, mass spectra, and kinetic studies. Dray F, et al. *Anal Biochem* 34:387-402, Apr 70

ANDROSTANES, analysis/ CARBON ISOTOPES/ CHROMATOGRAPHY, GAS/ CHROMATOGRAPHY, PAPER/ CHROMATOGRAPHY, THIN LAYER/ INFRARED RAYS/ KETONES, analysis/ 17-KETOSTEROIDS, analysis/ KINETICS/ METHODS/ MICROCHEMISTRY/ *OXIMES, analysis/ PROGESTERONE, analysis/ SPECTROPHOTOMETRY/ *SPECTRUM ANALYSIS/ *STERIODS, analysis/ TESTOSTERONE, analysis/ TRITIUM

The metabolism of adenosine 3',5'-cyclic phosphate. I. Method for the determination of adenyl cyclase and some properties of the adenyl cyclase isolated from the rat kidney. Douša T, et al. *Biochim Biophys Acta* 204:1-9, 19 Mar 70

*ADENINE NUCLEOTIDES, isolation & purification/ ADENOSINE CYCLIC 3',5'-PHOSPHATE, isolation & purification/ ADENOSINE TRIPHOSPHATE/ ADENYL CYCLASE, analysis/ ALCOHOL, PROPYL/ ALCOHOLS/ AMMONIUM COMPOUNDS/ ANIMAL EXPERIMENTS/ CARBON ISOTOPES/ CENTRIFUGATION/ CHEMISTRY/ CHROMATOGRAPHY, PAPER/ ENZYME ACTIVATION/ *ENZYMES, analysis/ FLUORIDES/ HYDROCHLORIC ACID/ HYDROGEN-ION CONCENTRATION/ *KIDNEY, enzymology/ KINETICS/ METHODS/ RATS/ SOLVENTS/ WATER

A radioimmunoassay for plasma aldosterone. Mayes D, et al. *J Clin Endocr* 30:682-5, May 70

ALDOSTERONE, antagonists & inhibitors/ ALDOSTERONE, biosynthesis/ *ALDOSTERONE, blood/ ALDOSTERONE, secretion/ ANIMAL EXPERIMENTS/ ANTIBODIES/ CHROMATOGRAPHY, PAPER/ CHROMATOGRAPHY, THIN LAYER/ CORTICOSTERONE, pharmacodynamics/ CORTISONE/ FREUND'S ADJUVANT, pharmacodynamics/ HUMAN/ HYDROCORTISONE, pharmacodynamics/ 17-HYDROXYCORTICOSTEROIDS, pharmacodynamics/ HYPERALDOSTERONISM, blood/ IMMUNE SERUMS/ INJECTIONS, INTRAMUSCULAR/ MALE/ METHODS/ PROGESTERONE, pharmacodynamics/ RABBITS/ *RADIOIMMUNOASSAY/ SERUM ALBUMIN, BOVINE, pharmacodynamics/ *STERIODS, pharmacodynamics/ TESTOSTERONE, pharmacodynamics/ TRITIUM

Evaluation of a rapid method for the measurement of plasma progesterone by competitive protein binding. Martin BT, et al. *J Endocr* 46:369-77, Mar 70

ACETATES/ CHROMATOGRAPHY, PAPER/ FEMALE/ HUMAN/ MALE/ MENSTRUATION/ METHODS/ *PROGESTERONE, blood/ *PROTEIN BINDING/ TIME FACTORS/ TRITIUM/ WATER

[17-ketonizing reactions of pur corticosteroids, with special reference to evaluation of 17-KGS determination] Okamoto T. *Folia Endocr Jap* 45:1082-102, 20 Jan 70 (Jap)

ADDISON'S DISEASE, drug therapy/ ADDISON'S DISEASE, urine/ *ADRENAL CORTEX HORMONES, analysis/ BIOLOGICAL ASSAY/ BISMUTH/ CHEMISTRY/ CHROMATOGRAPHY/ CHROMATOGRAPHY, PAPER/ COMPARATIVE STUDY/ ENGLISH ABSTRACT/ HUMAN/ *17-KETOSTEROIDS,

METHOD SECTION

COMPARATIVE

analysis/ METHODS/ RADIOMETRY/ SODIUM/
SPECTRUM ANALYSIS

CHROMATOGRAPHY, THIN LAYER

A new method for the simultaneous determination of pregnanediol and oestriol in pregnancy urine. Bang HO, et al.

Acta Obstet Gynec Scand 48:Suppl 3:48+, 1969
CHROMATOGRAPHY, THIN LAYER/
*ESTRIOL, urine/ FEMALE/ HUMAN/ MALE/
METHODS/ *PREGNANCY/ *PREGNANEDIOL,
urine

A method for the estimation of urinary testosterone and epi-testosterone. Gaede P.

Acta Obstet Gynec Scand 48:Suppl 3:41+, 1969
CHROMATOGRAPHY, THIN LAYER/
FEMALE/ HUMAN/ IN VITRO/ MALE/
METHODS/ *TESTOSTERONE, urine

Identification of O-methyloximes of ketosteroids by gas chromatography, thin-layer chromatography, mass spectra, and kinetic studies. Dray F, et al.

Anal Biochem 34:387-402, Apr 70
ANDROSTANES, analysis/ CARBON
ISOTOPES/ CHROMATOGRAPHY, GAS/
CHROMATOGRAPHY, PAPER/
CHROMATOGRAPHY, THIN LAYER/
INFRARED RAYS/ KETONES, analysis/
17-KETOSTEROIDS, analysis/ KINETICS/
METHODS/ MICROCHEMISTRY/ *OXIMES,
analysis/ PROGESTERONE, analysis/
SPECTROPHOTOMETRY/ *SPECTRUM
ANALYSIS/ *STEROIDS, analysis/
TESTOSTERONE, analysis/ TRITIUM

Simultaneous thin-layer chromatographical determination of pregnanediol and oestriol in urine during late pregnancy. Bang HO, et al.

Danish Med Bull 16:193-9, Aug 69
CHROMATOGRAPHY, THIN LAYER/
*ESTRIOL, urine/ FEMALE/ HUMAN/
METHODS/ *PREGNANCY/ *PREGNANEDIOL,
urine/ TIME FACTORS

Isolation and chemical properties of two calcitonins from salmon ultimobranchial glands. Keutmann HT, et al. J Biol Chem 245:1491-6, 25 Mar 70

AMINO ACIDS, analysis/ ANIMAL
EXPERIMENTS/ BIOLOGICAL ASSAY/
CALCIUM, blood/ CATTLE/ CHEMISTRY/
CHROMATOGRAPHY, ION EXCHANGE/
CHROMATOGRAPHY, THIN LAYER/
DEPRESSION, CHEMICAL/
ELECTROPHORESIS, DISK/ ENDOCRINE
GLANDS/ FEMALE/ GEL FILTRATION/
HUMAN/ METHODS/ MICE/ RATS/
*SALMONIDAE/ SHEEP/ SPECIES
SPECIFICITY/ SWINE/ *THYROCALCITONIN/
THYROCALCITONIN, analysis/
THYROCALCITONIN, isolation & purification/
THYROCALCITONIN, pharmacodynamics/
TRYPSIN/ ULTRAVIOLET RAYS

Thin-layer chromatographic separation of steroids and their localization by diazo dyes. Nair PP, et al.

J Chromatogr 47:513-8, 31 Mar 70
*AZO COMPOUNDS/ CHROMATOGRAPHY,
THIN LAYER/ *DYES/ METHODS/
MICROCHEMISTRY/ *STEROIDS, isolation &
purification

A radioimmunoassay for plasma aldosterone. Mayes D, et al. J Clin Endocr 30:682-5, May 70

ALDOSTERONE, antagonists & inhibitors/
ALDOSTERONE, biosynthesis/
*ALDOSTERONE, blood/ ALDOSTERONE,
secretion/ ANIMAL EXPERIMENTS/
ANTIBODIES/ CHROMATOGRAPHY, PAPER/
CHROMATOGRAPHY, THIN LAYER/
CORTICOSTERONE, pharmacodynamics/
CORTISONE/ FREUND'S ADJUVANT,
pharmacodynamics/ HUMAN/
HYDROCORTISONE, pharmacodynamics/
17-HYDROXYCORTICOSTEROIDS,
pharmacodynamics/ HYPERALDOSTERONISM,
blood/ IMMUNE SERUMS/ INJECTIONS,
INTRAMUSCULAR/ MALE/ METHODS/
PROGESTERONE, pharmacodynamics/

RABBITS/ *RADIOIMMUNOASSAY/ SERUM
ALBUMIN, BOVINE, pharmacodynamics/
*STEROIDS, pharmacodynamics/
TESTOSTERONE, pharmacodynamics/ TRITIUM

A radioisotopic method for measuring the formation of adenosine 3',5'-cyclic monophosphate in incubated slices of brain. Shimizu H, et al.

J Neurochem 16:1609-19, Dec 69
ADENINE, metabolism/ *ADENINE
NUCLEOTIDES, biosynthesis/ ADENOSINE
CYCLIC 3',5'-PHOSPHATE, analysis/
ADENOSINE CYCLIC 3',5'-PHOSPHATE,
biosynthesis/ ANIMAL EXPERIMENTS/
*BRAIN, metabolism/ CAFFEINE,
pharmacodynamics/ CARBON ISOTOPES/
CAUDATE NUCLEUS, metabolism/
CEREBELLUM, drug effects/ CEREBELLUM,
metabolism/ CEREBRAL CORTEX, drug
effects/ CEREBRAL CORTEX, metabolism/
CHROMATOGRAPHY, THIN LAYER/ GUINEA
PIGS/ HISTAMINE, pharmacodynamics/ IN
VITRO/ MALE/ METHODS/
NOREPINEPHRINE, pharmacodynamics/
NUCLEOSIDES, pharmacodynamics/ RABBITS/
TIME FACTORS

[Quantitative determination of urinary estrogens by gas liquid chromatography] Tsuruta S.

Folia Endocr Jap 45:1041-58, 20 Jan 70 (Jap)
CHROMATOGRAPHY/ *CHROMATOGRAPHY,
GAS/ CHROMATOGRAPHY, THIN LAYER/
COMPARATIVE STUDY/ ENGLISH
ABSTRACT/ *ESTROGENS, urine/ FEMALE/
FLUOROMETRY/ HUMAN/ MALE/ METHODS/
*PREGNANCY

STANDARDS

Variable decomposition by environmental contaminants in air of estrogens on glass plates coated with silica gel for thin-layer chromatography.

Coyotupa J, et al. Anal Biochem 34:71-3, Mar 70
AIR POLLUTION/ *CHROMATOGRAPHY,
THIN LAYER, standards/ DRUG STABILITY/
ESTRADIOL, analysis/ ESTRIOL, analysis/
*ESTROGENS, analysis/ ESTRONE, analysis/
METHODS/ NITROGEN/ RADIOCHEMISTRY/
SILICA/ TIME FACTORS/ TRITIUM

COLORIMETRY

Three hydrolysis methods for 17-ketosteroid sulfates compared by colorimetric and gas-liquid chromatographic analyses. Muehlbaeher CA, et al.

Clin Chem 16:158-60, Mar 70
ACETATES/ ANDROSTERONE, urine/
*CHROMATOGRAPHY, GAS/ *COLORIMETRY/
COMPARATIVE STUDY/
DEHYDROEPIANDROSTERONE, urine/
FURANS/ HYDROCHLORIC ACID/
*17-KETOSTEROIDS, urine/ METHODS/
PERCHLORIC ACIDS/ SOLVENTS/ SULFURIC
ACIDS, urine/ TRITIUM

[Isolation and determination of free aldosterone in the urine. Comparative studies on the fluorometric and the simple colorimetric determination with B.T.] Taniguchi A.

Folia Endocr Jap 45:1640-51, 10 Mar 70 (Jap)
*ALDOSTERONE, urine/ *COLORIMETRY/
COMPARATIVE STUDY/ ENGLISH
ABSTRACT/ *FLUOROMETRY/ HUMAN/
METHODS/ TETRAZOLIUM SALTS

[Determination of compounds containing the 3,4-dihydroxyphenyl group in pharmaceutical preparation] Pomazańska-Kolodziejaska. (Pol)
Acta Pol Pharm 26:519-28, 1969
*COLORIMETRY/ DIAZONIUM COMPOUNDS/
*DOSAGE FORMS/ ENGLISH ABSTRACT/
*EPINEPHRINE, analysis/ *ISOPROTERENOL,
analysis/ METHODS/ *NOREPINEPHRINE,
analysis

COMPARATIVE STUDY

A semiautomated nonincineration technique for determining serum thyroxine. Kessler G, et al. Clin Chem 16:382-9, May 70

ACETIC ACIDS/ ARSENIC/ *AUTOANALYSIS/
 AUTOANALYSIS, instrumentation/ BLOOD
 CHEMICAL ANALYSIS, standards/ CERIUM/
 CHROMATOGRAPHY, ION EXCHANGE/
 COMPARATIVE STUDY/ CONTRAST MEDIA/
 HUMAN/ HYDROGEN-ION CONCENTRATION/
 IODINE/ IODINE ISOTOPES/ METHODS/
 RADIOGRAPHY/ *THYROXINE, blood/
 THYROXINE, isolation & purification/ TIME
 FACTORS/ *TRIIODOTHYRONINE, blood/
 TRIIODOTHYRONINE, isolation & purification

Three hydrolysis methods for 17-ketosteroid sulfates
 compared by colorimetric and gas-liquid
 chromatographic analyses. Muehlbaeher CA, et al.
 Clin Chem 16:158-60, Mar 70

ACETATES/ ANDROSTERONE, urine/
 *CHROMATOGRAPHY, GAS/ *COLORIMETRY/
 COMPARATIVE STUDY/
 DEHYDROEPIANDROSTERONE, urine/
 FURANS/ HYDROCHLORIC ACID/
 *17-KETOSTEROIDS, urine/ METHODS/
 PERCHLORIC ACIDS/ SOLVENTS/ SULFURIC
 ACIDS, urine/ TRITIUM

[Radiologic procedures for the determination of
 mineral salt content in bones] Meissner J.
 Radiol Clin N Amer 7:473-83, May 69 (Ger)

ADOLESCENCE/ ADULT/ AGE FACTORS/
 AGED/ BONE AND BONES, analysis/ *BONE
 AND BONES, radiography/ BONE DISEASES,
 diagnosis/ CALCIUM, analysis/ CHILD/
 CHILD, PRESCHOOL/ COMPARATIVE
 STUDY/ DENSITOMETRY, X-RAY/
 EXTREMITIES, analysis/ FEMALE/ HUMAN/
 HYDROXYAPATITE, analysis/ INFANT/
 INFANT, NEWBORN/ MALE/ METHODS/
 MIDDLE AGE/ *MINERALS, analysis/
 PHOSPHATES, analysis/ PHOTOMETRY/
 RADIOISOTOPES, diagnostic use/ SALTS,
 analysis/ SEX FACTORS/ SPINE, analysis/
 TIME FACTORS

[17-ketoning reactions of pur corticosteroids, with
 special reference to evaluation of 17-KGS
 determination] Okamoto T.

Folia Endocr Jap 45:1082-102, 20 Jan 70 (Jap)
 ADDISON'S DISEASE, drug therapy/
 ADDISON'S DISEASE, urine/ *ADRENAL
 CORTEX HORMONES, analysis/ BIOLOGICAL
 ASSAY/ BISMUTH/ CHEMISTRY/
 CHROMATOGRAPHY/ CHROMATOGRAPHY,
 PAPER/ COMPARATIVE STUDY/ ENGLISH
 ABSTRACT/ HUMAN/ *17-KETOSTEROIDS,
 analysis/ METHODS/ RADIOMETRY/ SODIUM/
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[Isolation and determination of free aldosterone in the
 urine. Comparative studies on the fluorometric and
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 Taniguchi A.

Folia Endocr Jap 45:1640-51, 10 Mar 70 (Jap)
 *ALDOSTERONE, urine/ *COLORIMETRY/
 COMPARATIVE STUDY/ ENGLISH
 ABSTRACT/ *FLUOROMETRY/ HUMAN/
 METHODS/ TETRAZOLIUM SALTS

[Quantitative determination of urinary estrogens by
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Folia Endocr Jap 45:1041-58, 20 Jan 70 (Jap)
 CHROMATOGRAPHY/ *CHROMATOGRAPHY,
 GAS/ CHROMATOGRAPHY, THIN LAYER/
 COMPARATIVE STUDY/ ENGLISH
 ABSTRACT/ *ESTROGENS, urine/ FEMALE/
 FLUOROMETRY/ HUMAN/ MALE/ METHODS/
 *PREGNANCY

DENSITOMETRY

[A new method of measurement of the radiological
 density of the skeleton: radiocalcimetrie] Buffetaut
 M. Rev Rhum 36:705-8, Dec 69 (Fre)

*BONE AND BONES, analysis/ *BONE AND
 BONES, radiography/ *CALCIFICATION,
 PHYSIOLOGIC/ *CALCIUM, analysis/
 DECALCIFICATION, PATHOLOGIC/
 DENSITOMETRY/ HUMAN/ METHODS

[Therapeutic control in patients with osteoporosis
 using a I-125 profile scanner] Börner W, et al.

Klin Wschr 47:1115-6, 15 Oct 69 (Ger)
 CALCIUM, therapeutic use/ DENSITOMETRY/
 ENGLISH ABSTRACT/ FLUORIDES,
 therapeutic use/ HUMAN/ *IODINE
 ISOTOPES, DIAGNOSTIC/ METHODS/
 *OSTEOPOROSIS, diagnosis/ OSTEOPOROSIS,
 drug therapy/ *RADIOISOTOPE SCANNING/
 SODIUM, therapeutic use

DENSITOMETRY, X-RAY

Application of automatic processing methods to the
 radiologic image. Moore R, et al.

Radiol Clin N Amer 7:473-83, Dec 69
 AGE DETERMINATION BY SKELETON/
 *AUTOMATIC DATA PROCESSING/ BONE
 AND BONES, radiography/ BREAST
 DISEASES, radiography/ CINEANGIOGRAPHY/
 *COMPUTERS, DIGITAL/ DENSITOMETRY,
 X-RAY/ DIAGNOSIS, DIFFERENTIAL/
 HUMAN/ MAMMOGRAPHY/ METHODS/
 PATTERN RECOGNITION/ *TECHNOLOGY,
 RADIOLOGIC/ TOOTH ERUPTION

[Radiologic procedures for the determination of
 mineral salt content in bones] Meissner J.
 Radiol Clin N Amer 7:473-83, May 69 (Ger)

ADOLESCENCE/ ADULT/ AGE FACTORS/
 AGED/ BONE AND BONES, analysis/ *BONE
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Isolation and chemical properties of two calcitonins
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FILTRATION

A simplified fluorometric method for determination of blood cortisol using phase-separating filter paper. Kitabchi AE, et al. Anal Biochem 34:529-37, Apr 70
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Identification of O-methylximes of ketosteroids by gas chromatography, thin-layer chromatography, mass spectra, and kinetic studies. Dray F, et al. *Anal Biochem* 34:387-402, Apr 70
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Microdetermination of norepinephrine, 3,4-dihydroxyphenylethylamine, and 5-hydroxytryptamine from single extracts of specific rat brain areas. Kariya T, et al. *Anal Biochem* 31:102-13, 1 Oct 69
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A method for the determination of dATP and dTTP in picomole amounts. Lindberg U, et al. *Anal Biochem* 34:152-60, Mar 70
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A method for the determination of dATP and dTTP in picomole amounts. Lindberg U, et al. *Anal Biochem* 34:152-60, Mar 70
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Identification of O-methylolximes of ketosteroids by
gas chromatography, thin-layer chromatography,
mass spectra, and kinetic studies. Dray F, et al.
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ULTRACENTRIFUGATION

A method for the determination of dATP and dTTP in picomole amounts. Lindberg U, et al.

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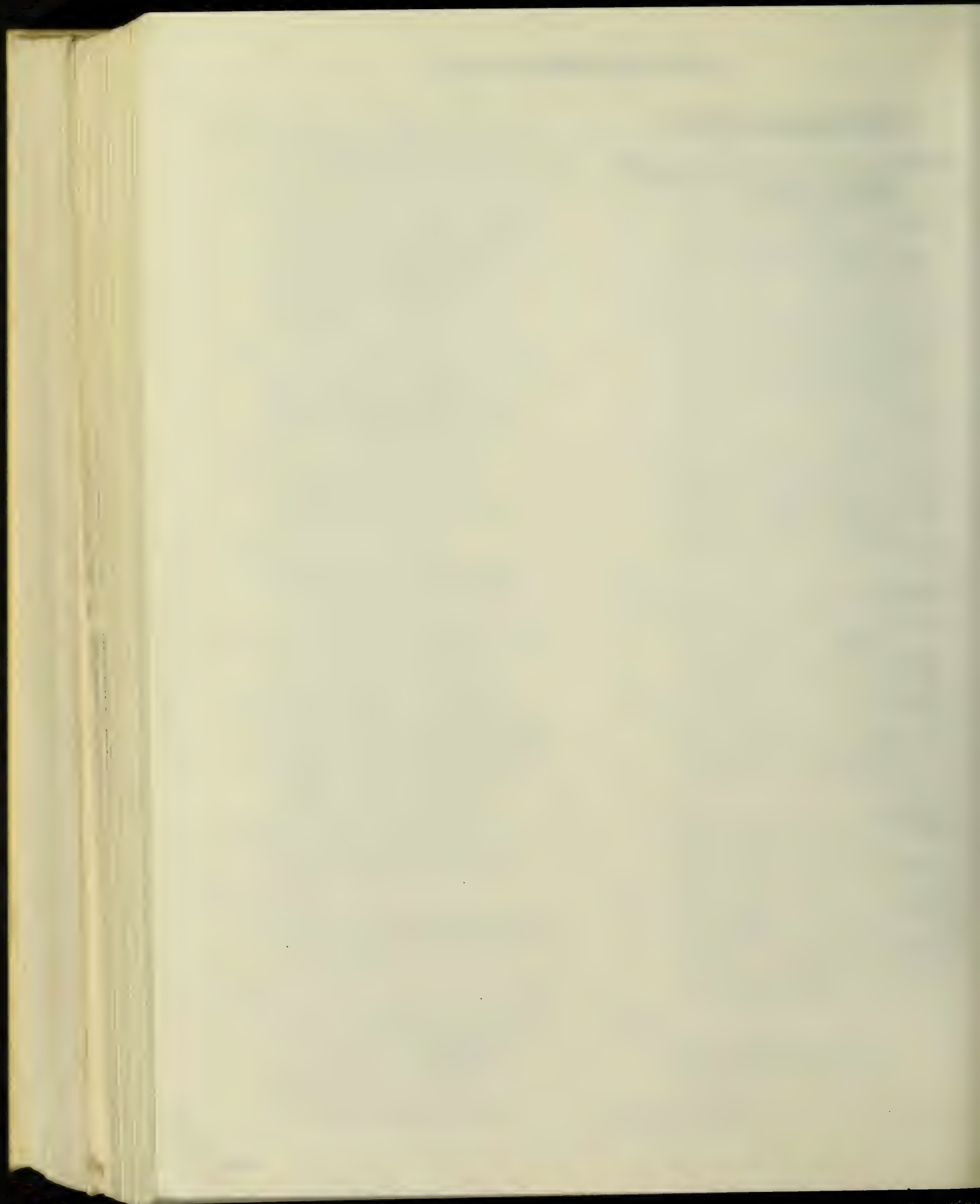
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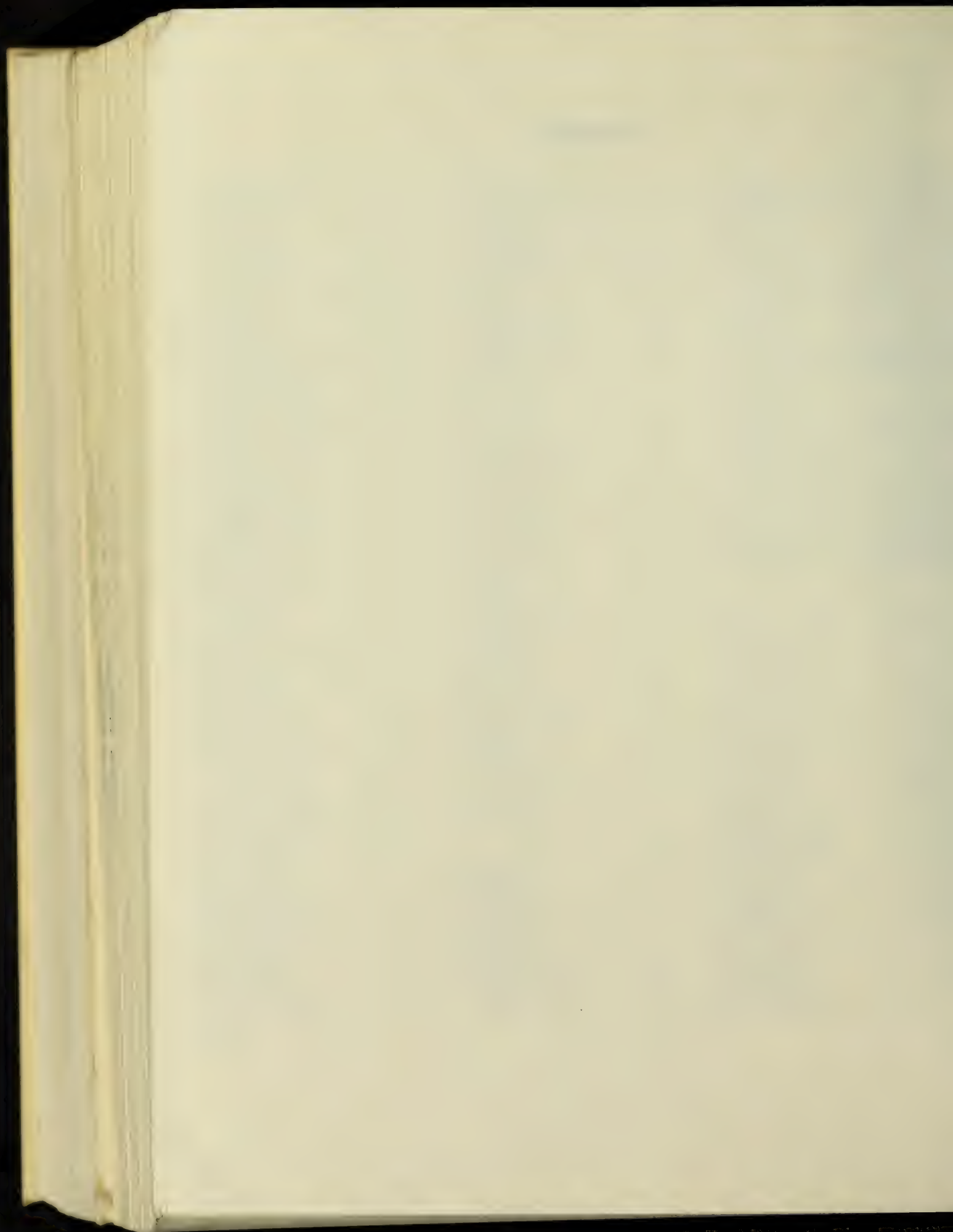
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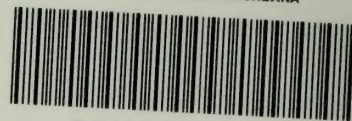
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